## Sikorsky Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

RSRA Sixth Scale Wind Tunnel Test Final Report

DOCUMENT NUMBER

SER-72011

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Sequence Number A011, DD Form 1423

PREPARED UNDER

Contract Data Requirements, Contract NAS1-13000

DOCUMENT DATE

December 4, 1974

PERIOD COVERED

March 1974 - November 1974

This document is applicable to the following aircraft model(s) and contract(s):

MODEL

CONTRACT

S-72(RSRA)

NAS1-13000

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The contract research effort which has lead to the results in this report was financially supported by USAAMRDL (Langley Directorate)

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#### SUMMARY

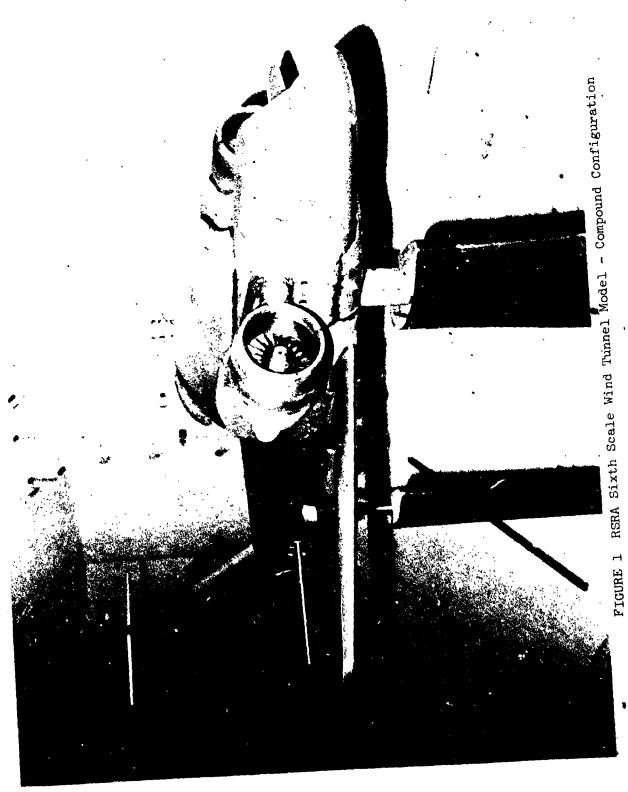
Wind tunnel tests of the sixth scale model of the Sikorsky/NASA/Army Rotor Systems Research Aircraft (RSRA) were conducted in the United Aircraft Research Laboratories (UARL) large subsonic wind tunnel during the periods of May 22 through June 29, 1974, and August 12 through October 4, 1974. The objectives of these tests were to determine, in forward flight, aerodynamic characteristics and fuselage surface pressure distributions in both the helicopter and full compound configurations. Particular attention was given to wing inboard fairing configuration, powered TF-34 cant and incidence angles, TF-34 support fairing shape, and empennage configuration. Neither a main nor a tail rotor was tested.

This report documents test results and is supplemented by UARL Report N-432377-1, Reference 1, and UARL Report N-432409-1, Reference 2.

These wind tunnel tests resulted in an RSRA configuration that differed from the March 1974 design primarily in the areas of the wing-fuselage junction and the empennage. Wing fuselage seals were incorporated at the junction with the side of the fuselage and aft of the wing center box. Numerous tail iterations resulted in a compound empennage configuration with the vertical tail extended to waterline 360, a rectangular planform, 98.1 square foot, lower horizontal tail, and a 17.2 square foot upper horizontal tail. The helicopter configuration used the same vertical tail with a 35.4 square foot upper horizontal tail and no lower tail.

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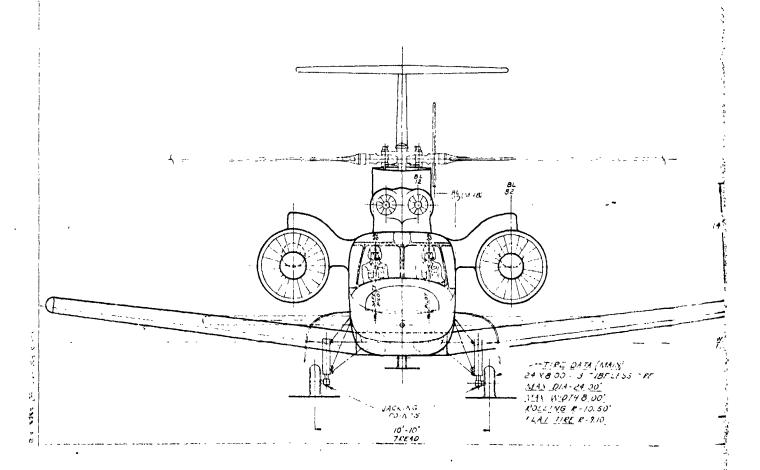
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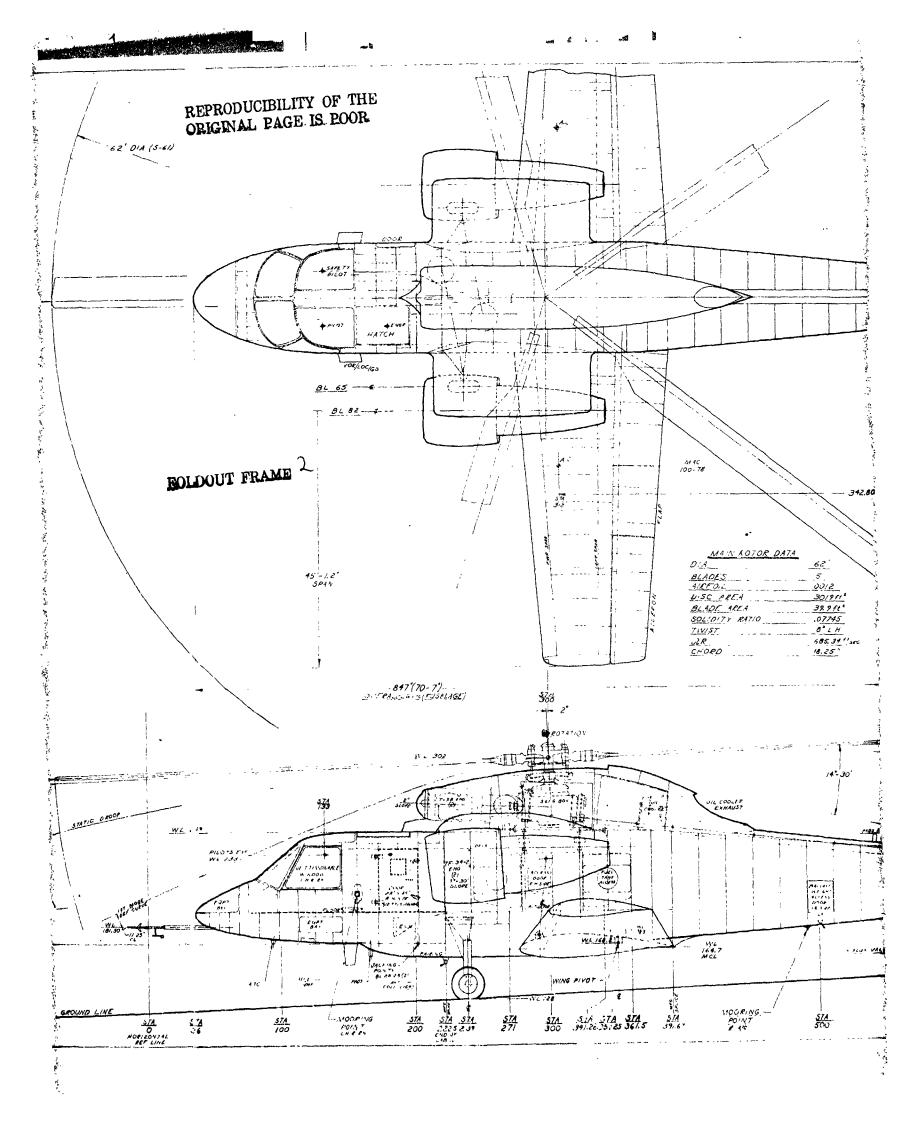


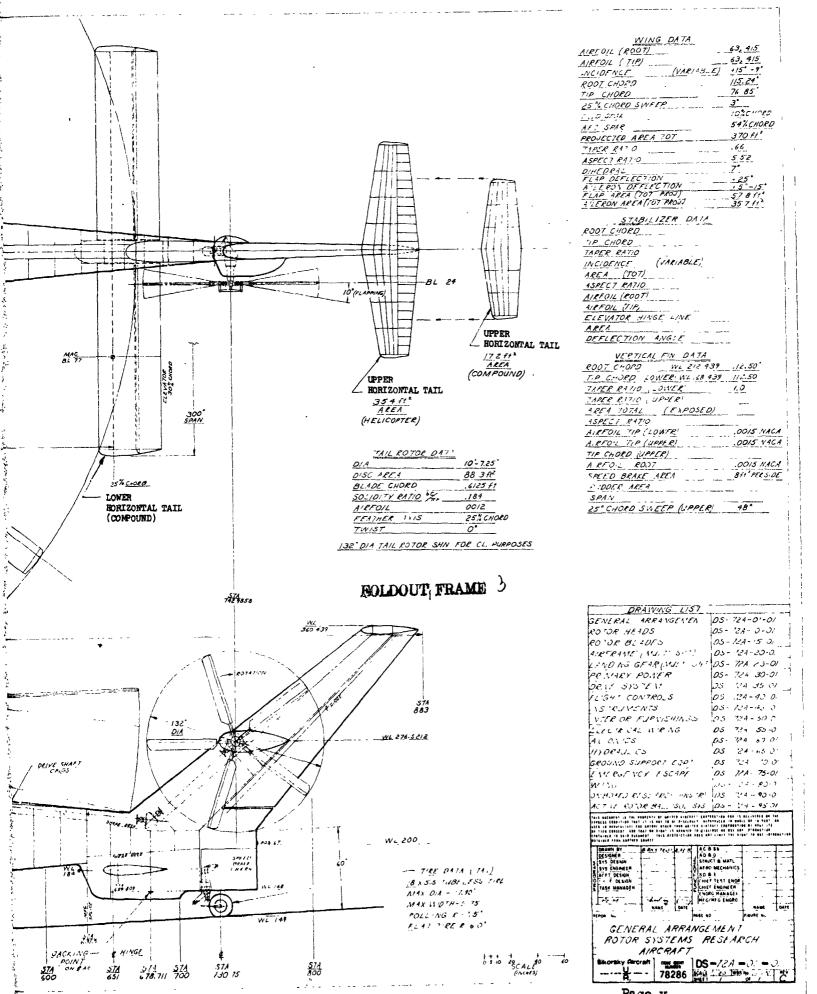
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### LIST OF SYMBOLS

ъ	Wing Span - ft
e	Wing Chord - ft
ē	Mean Aerodynamic Chord - ft
$^{\mathtt{C}}^{\mathtt{D}}$	Drag Coefficient, Wind Axis
C <sub>DS</sub>	Drag Coefficient, Stability Axis
$^{\mathrm{L}}$	Lift Coefficient, Wind Axis
C <sub>LS</sub>	Lift Coefficient, Stability Axis
್ರ	Rolling Moment Coefficient, Wind Axis
c Ls	Rolling Moment Coefficient, Stability Axis
<sup>C</sup> m	Pitching Moment Coefficient, Wind Axis
C <sub>MS</sub>	Pitching Moment Coefficient, Stability Axis
7 <b>n</b>	Yawing Moment Coefficient, Wind Axis
<sup>С</sup> <b>7</b> 8	Yawing Moment Coefficient, Stability Axis
$^{\mathtt{C}}_{\mathtt{P}}$	Pressure Coefficient
$^{\mathrm{C}}_{\mathrm{Y}}$	Side Force Coefficient, Wind Axis
C <sub>YS</sub>	Side Force Coefficient, Stability Axis
CG	Aircraft Center of Gravity
i <sub>HT</sub>	Horizontal Tail Incidence - deg
i <sub>N</sub>	Nacelle Incidence Angle - deg
$\mathbf{i}_{ extsf{VT}}$	Vertical Tail Incidence - deg
i <sub>W</sub>	Wing Incidence - deg
М	المراه کارام) کھی Pitching Moment Slope - Ft <sup>3</sup> /deg
$P_{N}$	Local Static Pressure - r r

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#### LIST OF SYMBOLS (Cont'd.)

- Po Tunnel Static Pressure - psf
- 2012, Dynamic Pressure psf q
- Wind Tunnel Dynamic Pressure psf
- Tail Dynamic Pressure psf
- Free Stream Velocity, fps
- Angle of Attack deg
- Aileron Deflection deg
- Elevator Deflection deg
- Flap Deflection deg
- Rudder Deflection deg
- $\mathbf{\delta}_{\mathtt{SB}}$ Speed Brake Deflection - deg
- Downwash Angle deg
- Density Slugs/Ft<sup>3</sup>
- Sidewash Angle deg
- Nacelle Cant Angle deg
- Angle of Yaw deg

#### Configuration Nomenclature

- В Main Rotor Hub
- Tail Rotor Hub
- Fuselage
- Fuselage with Landing Gear Fairing Removed
- L Landing Gear

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#### LIST OF SYMBOLS

N	Unpowered Nacelles
$^{\mathtt{N}}_{\mathtt{P}}$	Powered Nacelles
N <sub>Pl</sub>	Powered Nacelles and Aft Pylon Fairings and Forward Pylon Fairings
N <sub>P2</sub>	Powered Nacelles and Aft Pylon Fairings (Plate Only)
N <sub>P3</sub>	N <sub>Pl</sub> and Nose Plug
$N_{\mathbf{P}^{1_{4}}}$	N <sub>Pl</sub> and Nose and Tail Plug
N <sub>P5</sub>	Powered Nacelles with Full Support Fairing
N <sub>P6</sub>	N <sub>P5</sub> With Vented Fairing (1/4 inch holes)
N <sub>P7</sub>	N <sub>P6</sub> With Leading Edge Off and Trailing Edge Truncated
N <sub>P8</sub>	N <sub>P5</sub> With Trailing Edge Truncated
$^{ m N}_{ m Rl}$	Large Ring Nacelles
N <sub>R2</sub>	Small Ring Nacelles
P	Main Rotor Pylon
$\mathbf{x}\mathbf{x}^{\mathbf{T}}$	See Tables I, II, and III, and Figures 9 and 10 for Tail Identification Nomenclature
W	Wing
W <sub>l</sub>	Wing and End Plates on Flaps
W <sub>2</sub>	Wing and 10 inch long fences located 12 and 17 inches Outboard of Wing Root
<b>w</b> 3	Wing and 10 inch long fences located 4 and 12 inches Outboard of Wing Root
W <sub>14</sub>	$W_3$ and $W_1$
<sup>W</sup> 5	W <sub>3</sub> and root plate fairings extending from wing leading edge to leading edge of flaps

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#### LIST OF SYMBOLS (Cont'd.)

 $W_6$   $W_5$  and  $W_1$ 

 $W_7$  Wing at Phase II location with fences and

root fairings

W<sub>8</sub> W<sub>7</sub> Without fences

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## Sikorsky Aircraft (1978) OF UNITED ANGLAST COMPONATION ANGLES

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#### INTRODUCTION

The sixth scale model of the Sikorsky/NASA/Army RSRA was tested in the 18-foot section of the United Aircraft Research Laboratories (UARL) Large Subsonic Wind Tunnel for the purpose of obtaining basic data for the RSRA program in the areas of performance, stability, and body surface loads. These data are required to substantiate and update current analytical estimates. This report is the final report documenting the data and test procedures of Phases I and II of the RSRA wind tunnel testing.

The model was mounted in the tunnel on the struts arranged in tandem. Basic testing was limited to forward flight with angles of yaw from -20 to +20 degrees and angles of attack from -20 to +25 degrees. Tunnel test speeds were varied up to 172 knots (q = 96 psf). Interference data were derived from the tenth scale Utility Tactical Transport Aircraft System (UTTAS) wind tunnel testing, Reference 3, and Sikorsky S-67 data, Reference 4. Test data was monitored through a high speed static data acquisition system (STADAS), linked to a PDP-6 computer. This system provided immediate records of angle of attack, angle of yaw, six component force and moment data, and static and total presssure information. The test parameters were stored on magnetic tape for off-line processing.

The wind tunnel model was constructed of aluminum structural members with aluminum, fiberglass, and wood skins. Included in the test program were tip driven fans to simulate airflow through the RSRA's TF-34 thrust engines.

This report includes tabulated force and moment data, flow visulation photographs, tabulated surface pressure data for the basic helicopter and compound configurations, and limited discussions of the results of the test.

In addition to the authors the following personnel were major contributors to the wind tunnel test program:

- R. Blauch Test Operations
- B. Goldiez Test Operations and Report Preparation
- D. Clark and R. Moffitt Hot Wire Anemometer Operation
- J. Rorke, R. Monteleone, N. Heslin Test Supervision
- F. Moore, R. Satterthwaite, J. Hassel NASA/Army Representation

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#### DESCRIPTION OF TEST FACILITY

#### Large Subsonic Wind Tunnel

The Large Subsonic Wind Tunnel is a single-return, closed-throat facility with interchangeable 18 and 8-foot octagonal test sections. The tunnel is adaptable to testing models and components of airplanes and helicopters, full-scale and model missiles, propellers and helicopter rotors, powerplant installations engine inlets and exhaust nozzles, and air induction systems. Maximum tunnel velocities are approximately 200 mph for the 18 foot test section. Tunnel stagnation pressure equals atmospheric pressure, and the stagnation temperature of the airstream can be held constant in the 60° to 150°F range by means of air exchanger valves. Vacuum and 40, 100, and 400-psig air supplies are available to use in inlet and nozzle testing. Electric power may be supplied to the test model by motor generator sets which develop a maximum of 750 hp at frequencies up to 400 Hz. Balance, support, and control mechanisms permit a wide range of test installations. Model installation, access to the model, and visual observation of the test from the control room are facilitated by the design of the test sections. The installed model is shown in Figures 1 and 2 and the test facility is shown in Figure 4.

For this test the tunnel was configured to permit a tandem two strut mounting system consisting of a main forward strut and an aft pitch strut. Both struts were surrounded by self-aligning airfoil shaped fairings (see Figure 1). Separation between strut centers was 70 inches in Phase I and 57 inches in Phase II. The angle of attack range was -20 to +25 degrees and the angle of yaw range was -20 to +20 degrees.

Tail alone testing was made possible by attaching a structural forebody to the aircraft empennage components. Strut arrangement is shown in Figure 5. Strut separation was 38.875 inches and permitted an angle of attack range of -30 to + 30 degrees with an angle of yaw range from -30 to +30 degrees.

#### Computer Facilities

A high speed static data acquisition system (STADAS), located in the Large Subsonic Wind Tunnel control room, recorded six component force and moment balance data and static and total pressure data. This data system is linked to a PDP-6 computer located in the UARL computation laboratory and provides immediate on-line data monitoring capability. In addition, data were recorded on magnetic tape to provide a permanent test record, and for off-line computer processing on the UNIVAC 1110 computer.

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#### DESCRIPTION OF WIND TUNNEL MODEL

#### Aerodynamic Model

The sixth scale wind tunnel model was designed by Sikorsky Aircraft and fabricated from aluminum, fiberglass, steel, and wood materials. Design restrictions for the model were dictated by the air loads expected at wind tunnel speeds of 175 knots in forward flight and by the safety factors required by the test facility. The model weight is 749 pounds (configuration FPBW<sub>5</sub>TB<sub>m</sub>). Physical dimensions of the RSRA aircraft are shown in Figure 3. Basic model configurations are shown in Figures 6 through 10.

The cockpit section was constructed of molded fiberglass contoured to form the outer forward surface of the model. The interior was hollow to permit installation of static pressure taps and the powered nacelle air supply plenum chamber and control system. The cockpit section was bolted to the forward bulkhead of the cabin section. The cabin, transition, and tailcone sections contained the main aluminum structural members of the body including nacelle and wing attachment points. Three sets of aluminum cabin skins were fabricated for the various wing on/off and nacelle on/off configurations. The transition and tailcone skins were fiberglass. The main rotor pylon, which includes the T58-GE-5 engines was also fiberglass.

Two sets of TF-34 engine nacelles were used for this test. The first was of solid wood with inlet and exhaust fairings to simulate airflow around the nacelle. The second set of nacelles were tip driven 8 inch fan units supplied by NASA and manufactured by Tech Development, Inc., Dayton, Ohio. These were driven by 400 psig air, brought into the model through the forward strut. These nacelles are 4.8 scale or 25% oversize for the sixth scale model. Powered nacelle configurations are shown in Figure 7.

The RSRA model wing incorporates variable incidence, and includes a slotted flap and ailerons. The incidence and deflection angle ranges are shown below. All surfaces were manufactured from solid aluminum and wood. Wing fences and root seals are shown in Figure 8.

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The baseline empennage consisted of a vertical tail with a movable rudder, a variable incidence horizontal tail with movable elevators, and a speed brake. Control ranges are shown below. Empennage configurations are shown in Figures 9 and 10, with dimensional data presented in Table I. Tables II and III provide cross reference indeces to aid in identifying the components for each tail number.

	Airfoil Section	Incidence deg	Control Deflection deg
Wing	63 <sub>2</sub> 415	-9 to +15	0 to +40, Flaps -20 to +20, Ailerons
Vertical Tail	0015	0 to 4.5	-25 to +25
Baseline Horizontal Tail	63 <sub>•</sub> A212	-9 to +9	-25 to +25
Speed Brakes	-	-	0 to +55

Additional components built for the RSRA model, shown in Figure 6 and defined in the list of symbols are:

Rotor Heads (B &  $B_m$ ) - A main rotor head and a tail rotor head were designed to simulate rotor head wakes. Rotor downwash was not simulated during this test.

Landing Gear and Oleo Struts (L) - The extended main landing gear and its structural members. The tail gear was not tested because of its proximity to the pitch strut attachment point of the model.

The following table presents basic model dimensions, supplementing the data shown in Figure 3.

LENGTH Fuselage Overall (nose to aft point on stabilizer)	120.3 in. 141.2 in.
WIDTH Cabin Section Overall (Horizontal stabilizer span)	13.33 in. 50.00 in.
HEIGHT Cabin Section Overall (Vertical Stabilizer to wheels)	15.1 in. 38.8 in.

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MODEL RESOLVING CENTER	
Fuselage Station (A/C dimension)	309 in.
Waterline $(A/C$ dimension)	223 in.
Buttline (A/C dimension)	0 in.
BALANCE RESOLVING CENTER	
Fuselage Station (A/C dimension)	265.5 in.
Waterline (A/C dimension)	208.0 in.
PIVOT CENTER	
Fuselage Station (A/C dimension)	265.5 in.
Waterline (A/C dimension)	178.0 in.
REFERENCE LENGTHS, AREAS, AND VOLUMES	
Model Volume ( used for tunnel	
blockage correction)	
Fuselage	7.16 cu. ft.
Wing	1.10 cu. ft.
Nacelles	1.80 cu. ft.
Empennage	.62 cu. ft.
Main Rotor Pylon	.89 cu. ft.
Cross Sectional Area	1.85 sq. ft.
Reference Span	7.472 ft.
Reference Chord	1.400 ft.

The tail alone configuration utilized the UTTAS mounting system with a strut separation of 38.875 inches. This installation has a pivot center as follows:

Fuselage Station (A/C dimension) Waterline (A/C dimension)	452.8 in. 182.0 in.
Model Volume	
Empennage and Forebody (T2)	.95 cu. ft.
Forebody (T, )	.53 cu. ft.

The wind tunnel model was equipped with 163 pressure taps to measure pressure distributions on the right side of the cockpit, cabin, transition and tailcone sections, and the main rotor pylon. The taps consist of stainless steel tubing bonded flush to the surface and connected by flexible plastic tubing (Geon) to four 48-tap Scanivalve units mounted in the forward part of the cabin. Luch Scanivalve unit converted the pressure to an electrical signal which was recorded by STADAS. Only nine lead lines from the model were required for pressure readings, and since these lines were enclosed within the strut fairings, they did not affect model aerodynamic forces. Pressure data were therefore acquired during stability test runs without the need for separate pressure test runs. Components having pressure taps were removed from the model by uncoupling the Scanivalve connectors at the Scanivalve or by removing the tubing on each component. The locations of the fuselage pressure taps are given in Table IV.

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#### BALANCE DATA ANALYSIS

#### Test Procedure

The RSRA wind tunnel test procedure was arranged to provide data in four main areas of interest. These areas consisted of model buildup, wing performance, empennage studies, and model component interference effects. Model components, including main and tail rotor heads, wing, nacelles, main rotor pylon, and landing gear, were added to the model individually provide incremental effects. Data were taken for a maximum angle of tack range of -20 to +25 degrees, and a maximum angle of yaw range of ± 20 degrees. The tunnel was operated at a dynamic pressure of 55 psf (about 130 knots) except for Reynolds number and nacelle thrust studies.

The tunnel balance data were recorded on magnetic tape using the STADAS data reduction system, and immediately reduced using the UARL PDP-6 computer and printed on-line. The amount of output printed on-line was controlled to obtain only those values necessary for data checks. These data were monitored during each run and questionable points rerun. Final data were compiled from the tapes on the UNIVAC 1110 computer. The data presented in this report are in full scale parametric form, i.e., normalized by the dynamic pressure, q, and in coefficient form, non-dimensionalized by q and wing area and chord or span.

In addition to force and moment data, flow visualization studies were made on the aerodynamic model using tufts and oil. Tufts were used to determine surface flow characteristics on the forward sections, main rotor pylon, engines, wing, and empennage. Photographs were taken over a range of forward flight attitudes. A tuft rake was used to investigate three-dimensional flow around the empennage at a low tunnel speed. Oil flow studies were conducted by dissolving lamp black in SAE 30 oil and placing the solution on critical surface areas of the model. Normal tunnel q was then maintained for approximately 5 minutes with the model in a fixed flight attitude. After shutdown the model surface could be photographed to record flow patterns.

Flow conditions at the empennage were measured using two types of velocity measurement apparatus. A total pressure rake was mounted on the model to survey the flow dynamic pressure. A tri-axial hot wire probe was mounted behind the model to measure flow dynamic pressure and local flow angles. This equipment and resulting data are discussed in a later section of this report.

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#### Data Presentation

Aerodynamic force and moment data have been reduced from encoder values to parametric or coefficient values in the wind axis system, Figure 11, and coefficient values in the stability axis system. The steps in the data reduction process are listed below:

- Convert encoder forces to forces and moments in units of pounds or foot-pounds.
- 2. Correct forces and moments for start zeros and static moment variations.
- 3. Transfer moments to the model resolving center (Fuselage station 309, waterline 223, and buttline 0).
- 4. Correct forces and moments for aerodynamic tare and interference.
- 5. Compute forces and moments in parametric form by dividing by dynamic pressure, q, and correct for model scale using a factor of 36 for forces and 216 for moments.

Data is presented in parametric form throughout this volume and in Volume II.

Force and moment data were also computed in wind axis and stability axis coefficient form using the following equations:

#### WIND AXIS

 $C_{T_1} = L/qS$ 

 $C_D = D/qS$ 

 $C_m = m/qS\bar{c}$ 

 $c_n = n/qSb$ 

C\_ = 2/qSb

 $C_{\mathbf{v}} = Y/qS$ 

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### STABILITY AXIS

$$C_{LS} = C_{L}$$

$$C_{DS} = C_{D} \cos \Psi - C_{Y} \sin \Psi$$

$$C_{MS} = C_{M} \cos \Psi - (b/\bar{c}) C_{X} \sin \Psi$$

$$C_{MS} = C_{N}$$

$$C_{LS} = C_{L} \cos \Psi + (\bar{c}/b) C_{M} \sin \Psi$$

$$C_{YS} = C_{V} \cos \Psi + C_{D} \sin \Psi$$

Table VII has been prepared to assist in the location of data runs among the plotted data. Only these runs whose data are presented in plotted form are listed.

### Balance Data Precision

During the course of the test, data runs were repeated to establish the confidence level of the balance data. In addition to repeated runs, the static start and end zeros, and data points at zero pitch and yaw angles provide repeatability information.

UARL established the static data accuracy for a 95% confidence level for Phases I & II tests in References 1 & 2. This information is reproduced in Table VIII, which also includes the accuracy ranges for tests reported in References 3 and 5. Variations due to the flow of compressed air through the crossover system from air supply to the balance influenced the accuracy of powered nacelle balance data, especially the pitching moment component. While tunnel and nacelle run-ups can reduce the pitching moment shifts, the shifts do not affect data slopes and the displacement is small relative to the range of pitching moment measured.

Figures 12 and 13 show the data repeatability for all six force and moment parameters for configurations  $\text{FPBN}_{P5}\text{W}_7^{\text{T}}_{10}\text{B}_{\text{T}}$  and  $\text{FPBN}_{P5}\text{W}_7^{\text{T}}_2$ , respectively.

### Aerodynamic Tare and Interference

The force and moment data were corrected for derived tare and interference effects, since model construction did not provide for model inversion to generate tare and interference data. To define tare and interference (T&I) corrections in the helicopter mode a comparison was made between the uncorrected RSRA data and the 1/12 scale S-67 wind tunnel test results (Reference 4). For lift, side force, rolling moment and yawing moment the data were similar and therefore the tare and interference

contribution to the data should be relatively insignificant. There was a measurable change in pitching moment, where the application of T&I's would produce a more stable slope, and therefore pitching moment T&I's were conservatively not applied. Drag tare and interference corrections are significant, and were the only ones applied to the helicopter data. The drag T&I was determined by forcing the drag of the Phase I fuselage alone configuration at zero angle of attack and yaw equal to the estimated fuselage drag (3.10 sq. ft.). The shape of the drag T&I curve as a function of angle of attack and yaw was then developed from the 1/12 scale S-70 rilot tunnel test results (Reference 3). Fuselage aerodynamic tare and interference corrections are shown in Figure 14.

For the compound configuration a survey was made of the tare and interference contribution for several compound configurations previously tested by Sikorsky Aircraft. The results of this survey indicated the T&I contribution is similar to that discussed for the helicopter configuration.

A tare correction corresponding to the force and moments of the forebody and aft tailcone (Configuration  $T_h$ ) was applied to the tail alone data. These tare corrections are presented in Figure 15.

### Reynolds Number Effects

The effect of tunnel speed was investigated early in the test to provide information that led to the selection of a dynamic pressure of 55 psf for normal running. The trend of drag with tunnel speed is shown in Figure 16a in terms of Reynolds number per foot, where a Reynolds number of 1.28 x 10 corresponds to a dynamic pressure of 55 psf. The Reynolds number values presented are not corrected for the Large Subsonic Wind Tunnel turbulence factor which is approximately 1.14. The Reynolds numbers presented herein should be multiplied by the factor prior to any comparisons with corrected data. Figure 16b shows the effect of Reynolds number on lift and drag for compound configurations. Included is the effect of leading edge roughness on the wing and tails (grit size 150).

### Helicopter Buildup and Stability - Final Configuration

Helicopter performance and stability parameters for the final Phase II configuration, and the component buildup to this configuration, are presented in Figures 17 through 29. The RSRA helicopter meets or exceeds the pitching moment criteria established for this test of -40 cu. ft/deg with the 35.4 square foot upper horizontal tail.

Figures 17 and 18 show the effect of individual components during a helicopter buildup. The addition of the main rotor head and pylon do not have a significant impact on longitudinal stability, but does reduce lateral stability for angles of yaw less than ± 8 degrees, as shown in Figure 18b.

The parasite drag of several RSRA components can be evaluated from the wind tunnel results. To establish incremental drag levels the measured drag at zero angles of attack and yaw were listed and averaged. Analysis of incremental drag is then possible by subtracting the averaged drag for two configurations, one with and the second without the component.

Since the drag tare and interference value was derived by adjusting the tested fuselage (FT - Phase I) drag to an estimated value of 3.10 square feet, the test cannot be used to confirm this value. Modifications made to the fuselage and main strut for Phase II testing increased the fuselage drag by 2.61 square feet to 5.71 square feet (based on configurations FT, FPBT - Phase I, and FPBT - Phase II). The source of this difference has not been determined.

The main rotor pylon contributes 2.23 square feet of drag, compared to the estimated value of 1.50 square feet. The tested main and tail rotor heads, do not fully represent the actual RSRA configuration. The main rotor head tested and predicted drags were 3.73 and 8.93 square feet, respectively. The tail rotor head tested and predicted drags were 1.64 and 1.76 square feet.

The drag of empennage components was derived from tail alone D/q data multiplied by the dynamic pressure ratio at the tail surface in the following manner:

Vertical Tail

$$\begin{aligned} &\left\{ \left[ T_{65} B_{T} - (T_{63} B_{t} - T_{64} B_{T}) \right] - B_{T} \right\} q_{T}/q \\ &= \left\{ \left[ 3.60 - (4.90 - 4.21) \right] - 1.64 \right\} q_{T}/q \\ &\text{Where } q_{T}/q = 0.68 \quad \text{for the helicopter (Figure 152)} \end{aligned}$$

where  $q_T/q = 0.00$  for the helicopter (Figure 152)

and = 0.86 for the compound(trim power)

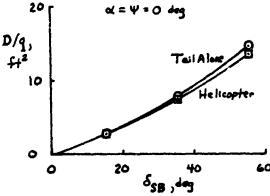
This calculation results in vertical tail parasite drags of 0.86 and 1.09 square feet for the helicopter and compound configurations, respectively, compared to a predicted value of 0.96 square feet for the unextended vertical tail, or 1.10 square feet for the extended vertical tail.

The drag of each horizontal tail is calculated as above:

Horizontal Tail	Tail Alone Drag	q <sub>T</sub> /q	Component Parasite Drag
17.2 sq. ft. Upper	0.69	0.97(Compound)	0.67
35.5 sq. ft. Upper	0.72	0.97(Helicopter	0.70
98.1 sq. ft. Lower	1.30	0.81(Compound)	1.05

The predicted drag of the original 110 square foot horizontal tail was 1.02 square feet. It should be noted, however, that n he of the tail surfaces tested were exactly as defined for the RSRA; he final tail surfaces should have a lower parasite drag.

The effectiveness of the speed brakes is a function of the dynamic pressure in proximity to the tailcone. Detailed measurements in this region were not taken, although a measure of the helicopter  $q_m/q$  can be determined from speed brake data from helicopter and tail alone configurations. These data are presented below.



SE	Tail Alone	Helicopter	g/g
15	2.24	2.23	1.00
35	7.71	7.34	.95
55	14.45	13.39	.93

Compound dynamic pressure loss is expected to be higher than that for the helicopter.

Figures 19 and 20 present the effect of angle of attack on lateral and directional characteristics. Figure 19 shows the effect of the main rotor pylon on the vertical tail due to positive body attitude. At  $\alpha = -10$  degrees the sawing moment slope is constant at -86 cu ft/deg. At  $\alpha = 0$  degrees the slope is reduced to -24 cu ft/deg. for -8 < 4 < 8 degrees, and at  $\alpha = +10$  degrees the slope is neutral to slightly unstable.

Figures 21 and 22 show the effects of horizontal and vertical tail incidence, which appear nearly symetrical. These data were used in the calculation of downwash and sidewash angles (see Figure 10).

Figure 23 presents the effects of rudder deflection. The rudder effectiveness,  $\partial \mathcal{H}_{4}/\partial \delta_{r}$ , is 37 cu ft/deg at  $\alpha=0$  degrees. Isolated

tail data (Tail Alone) is presented in Figures 24-29, and includes the impact of the speed brakes on drag (Figures 28 and 29). Comparisons with compound tail alone data may be found in Figures 91 and 92.

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Compound Buildup and Stability - Final Configuration

The effects of the wing and nacelle wakes on the empennage forced two-tail solution for the compound to meet a longitudinal stability criteria used for this test of -6 cu ft/deg. for the full range of wing incidences. The performance and stability parameters for the final Phase II compound configuration are presented in Figures 30 through 59.

Critical to the evaluation of compound performance and stability is the proper assessment of nacelle forces. Provisions were not made to perform an isolated calibration of each nacelle, but the thrust was measured with the nacelles installed on the model, both statically and at a dynamic pressure of 55 psf. The resulting data is shown in Figure 30. On Figure 30a the measured thrust at q =55 psf has been adjusted by the drag of the configuration without nacelles, FPBW\_T\_60B\_T, which is 26.4 square feet, or a proximately 40.3 pounds. The nacelle thrust presented is therefore the net thrust of the nacelle/nacelle fairing system. In this form, the thrust at q =55 psf is on a closely comparable base to the static thrust. Actual measured thrust is shown in Figure 30b in terms of the thrust parameter.

The thrust produced is a function of wing lift and nacelle fairing conours. Wing/nacelle separation is very important, and there are indications that small differences in the internal contours of the nacelle fairing ( $N_{\rm p5}$ ) may have caused flow disturbances to produce nacelle lift at a zero nacelle angle of attack. Variation of total lift, for the nacelles at an attack of zero, is shown in Figure 30b for the range of fan speeds tested.

The effects of the compound component buildup, beyond that of the helicopter configuration, are shown in Figures 31 and 32 for tail off configurations, and 33 and 34 with the tail on. Each powered nacelle run consisted of a "windmill" data point at  $\mathbf{x} = \mathbf{\Psi} = 0$  degrees, normally taken prior to the data for either "trim thrust" or "maximum thrust," or with one engine inoperative (OEI). Individual windmill points, when available, are shown with solid symbols. The "trim thrust" condition was defined as the fan speed necessary to balance the total drag of the model and support struts at  $\mathbf{x} = \mathbf{\Psi} = 0$  degrees. "Windmill" RPM was the fan speed resulting from the force of tunnel air. "Maximum thrust", 23,000 RPM on these fans, resulted in a scaled thrust equal to 70% of the actual TF-34 maximum thrust. OEI corresponds to maximum thrust on the right fan, with the left fan windmilling. Unless otherwise noted on the figures, the nacelle incidence is -3.5 degrees and the cant angle is zero. All control surface deflections are zero unless noted.

The drag of several nacelle and nacelle fairing configurations was determined. The basic nacelle configuration,  $N_{p5}$  at  $i_N = -3.5$  degrees, had very good drag characteristics. Either an increase or decrease in

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nacelle incidence increase the zero angle of attack drag by about 0.3 square feet/degree of nacelle incidence. The only fuselage/nacelle fairing that had less drag was the small airfoil-shaped fairing around the powered nacelle air supply pipe  $(N_{\rm p})$ . The vented fairing  $N_{\rm p6}$  had the same drag as  $N_{\rm p5}$ . Truncation of the trailing edge (Plus venting) increased drag by an an additional 3.0 square feet. The breakdown of nacelle, nacelle fairing, and windmill drag is not possible using tunnel data, but it can be estimated analytically. Using coefficients and values from the estimated drag, the following nacelle drag breakdown is assumed for configuration  $N_{\rm p5}$  and  $N_{\rm p}$ .

	Nacelle Parasit	e Drag		
Item-	RSRA Design	N <sub>P5</sub>	N <sub>P</sub>	Remarks
Isolated TF-34, sq. ft.	2.00	<b>≀.</b> 13	3.13	Scale correction
Support Fairing, sq. ft.	0.64	0.96	0.13	Size and shape corrections
Interference, sq. ft.	<u>1.7</u> 8	1.78	1.33	
Sub-Total, sq. ft.	4.42	5.87	4.59	
Windmilling Drag, sq. ft.	not applicable	5.96	5.96	
Total	4.42	11.83	10.55	

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Figure 35 presents limited tail rotor hub effect data. The tail rotor hub is the only component of the RSRA wind tunnel model that is, by design, not symmetric. Since the data for configurations without the tail rotor are not symmetric, the model component construction must not be symmetric. Examination of the wing shows that the left wing flap is slightly warped upward, resulting in delayed stall on the left wing.

Early in the test it was determined that the required lift could not be achieved in the landing configuration (15 degree wing incidence). Flow visualization identified the source of the reduced lift, and wing fences were added to the wing with a resultant increase in lift to the required value. (See Flow Visualization section for further discussion.) Additional fence studies were performed at the beginning of Phase II testing, and again showed the fences were necessary on the model to obtain the required lift. At a 15 degree wing incidence, the fences produce a 15% increase in maximum lift without the flaps deflected, and a 24% increase in maximum lift with the flaps deflected to 30 degrees.

Figure 36 presents the effects of wing incidence and angle of attack on lift, drag, and pitching moment for the baseline configuration, with the original 110 square foot horizontal tail and extended span and chord vertical tail. The longitudinal instabilities, with trim thrust on the powered nacelles, are clearly shown in Figure 36c.

Figures 37 and 38 present the tail off data for the compound configuration at trim thrust, while Figures 39 - 41 show similar information for the compound with the final Phase II tail ( $T_{60}$ ) installed. The RSRA has longitudinal stability with this tail for -15 to +17 degrees fuselage angle of attack, except for the -9 degree incidence wing which is neutrally stable from +10 to +15 degrees fuselage angle of attack and unstable at higher attitudes. Figure 40a shows directional stability for -20 <  $\Psi$  < +20 at zero angle of attack. Figure 40b shows directional stability for 0 <  $\Psi$  < 5 for angles of attack from -20 to +11, where the yawing moment increment becomes positive at a wing incidence of zero degrees. Other tested wing incidences remain stable to beyond +17 degrees. Figures 42-44 present additional stability trends.

Nacelle thrust level impacts on all force and moment parameters. Figures 45 - 49 present these effects versus angle of attack for wing incidences of -9, 0, 7.5, and 15, and for the 15 degree wing with 30 degrees of flap deflection, all with the tail off. Figures 50 - 54 present similar data versus angle of yaw. Tail on data comparable to Figures 45-49 are shown in Figures 55-59.

The effect of nacelle incidence and cant angle was investigated during the test. As can be seen in Table IX at a zero wing incidence a small stabilizing effect is realized by changing engine incidence to -7 or 0. However, this effect is reversed at high wing incidence (i<sub>W</sub> = 15°). An increase to positive engine incidence (5°) results in a de-stabilizing effect for both wing incidences. The baseline nacelle incidence of -3.5° yields minimum drag with a drag penalty of up to 1.7 ft² by either increasing or decreasing nacelle incidence from this point.

Canting the engine tailpipe outboard ( $\mathbf{X}_N = -5^{\circ}$ ) produced a relatively large de-stabilizing effect along with a reduction in parasite drag (see Table X). Inboard cant of the engine tailpipe ( $\mathbf{X}_N = +5^{\circ}$ ) did show a significant improvement in stability but also produced a significant drag penalty.

Based on these results an engine cant angle of  $0^{\circ}$  and incidence of  $-3.5^{\circ}$  were selected as optimum.

The nacelles tested on this model were oversized by 25%. The fans that were used later in the Langley Research Center testing of this model permit proper scaling of the macelles. These were not available to Sikorsky Aircraft for the test documented herein. To get an indication of the scale effect, ring nacelles (see Figures 9t - w) were fabricated and tested. Results of these runs indicate that a properly scaled nacelle will have a stabilizing pitching moment increment of from -22 to -30 cu ft/deg.

The RSRA's slotted flaps worked well on the model, as evidenced by Figures 60-65. Additional flap comparisons can be found in Figures 36-44, 45, 54, and 59. Figure 60 shows the effect of flep deflection for a zero wing incidence. Figure 61 presents the same information in terms of lift-Irag ratio, derived with corrections for powered nacelle lift and net propulsive force.

Aileron control power was evaluated for wing incidences of zero and 15 degrees, and at an incidence of 15 degrees with 30 degrees of flaps. These data are presented in Figures 66 through 75.

Only the right aileron was deflected during the Phase II test, and the data on the aileron figures are for only right aileron deflections. To obtain complete aircraft rolling moment, add the rolling moment caused by a deflection of the right aileron to the rolling moment for a deflection of the opposite sign times a gearing ratio (if different than 1:1). For

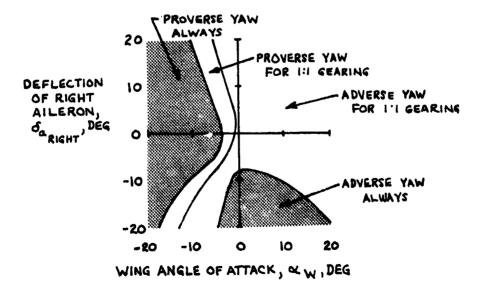
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example:

Total 
$$2/q = (2/q @ 6_a = 10^\circ) + (2/q @ 6_a = -10^\circ x gearing ratio)$$

Figure 66 shows the effect of the empennage on aileron control. While there are shifts in the rolling moment when the tail is added to the model, the change in rolling moment with respect to aileron deflection increments  $(\partial \mathcal{L}/q/\partial \delta_a)$  remains basically unchanged. Since  $\partial \mathcal{L}/q/\partial \delta_a$  should not be affected by the empennage, the aileron trend runs were made with the tail off. The aileron rolling moment increments are uniform except near positive and negative wing stall, where the disymmetry in wing construction can cause a non-uniform rolling moment.

The aileron data have been summarized for all conditions tested in Figure 75 in terms of the change in rolling moment from the  $\delta_a = 0$  degree case to the deflected aileron cases. The abscissa in Figure 75a is wing angle of attack which effectively combines the wing incidence and fuselage angle of attack into one variable. No control reversals exist for the range of angle of attack tested. Figure 75b shows the effect of right aileron deflection on yawing moment. Using this data the aileron deflection angles that result in adverse or proverse yaw at each angle of attack can be determined. The sketch below shows the aileron deflection angles and angles of attack where adverse and proverse yaw exist, and shows those areas where aileron gearing can reverse the sign of the yawing moment. Figure 75c shows the effect of angle of yaw on the rolling moment increment.



The effects of tail incidence were determined for all tail surfaces to permit the calculation of integrated sidewash and downwash angles, and to show any undesirable tail characteristics. So that one horizontal tail did not bias the true characteristics of the other, the lower horizontal tails and upper horizontal tails were run separately.

Figure 76 shows the characteristics of the lower horizontal tail,  $T_{61}$ , for ranges of wing incidence and flap deflection. These curves were used to derive Figures 103 and 104, discussed later. Similar information for the compound upper horizontal tail is presented in Figure 77, and results in Figure 106.

Figures 78-81 compare the pitching moment contributions of the lower and upper horizontal tails. The dashed line on each of these figures represents the summation of the pitching moment increment between T<sub>11</sub> and T<sub>2</sub> and the pitching moment of T<sub>61</sub>, and should approximate the data for the complete tail T<sub>60</sub>. Good agreement is seen in Figures 78-80, and the differences between the drived and tested lines appears to be a function of experimental accuracy, not inter-tail interference. Figure 81 does not demonstrate this agreement, but a comparison with other data indicates that there is probably a data shift in either the T<sub>60</sub> or T<sub>61</sub> data, or possibly both sets of data, at this wing incidence.

Figure 82 shows the effect of vertical tail incidence on yawing moment for trim and OEI thrust levels. The sidewash trends resulting from these data are presented later.

Only the original 110 square foot lower horizontal tail was equipped with moveable elevators. To obtain an approximation of elevator effects on the family of smaller surfaces, a split flap elevator was fabricated and installed on tail  $T_{\mu 0}$  (see Figures 9C and 9D). The resulting data are presented in Figure 83.

Rudder effectiveness in the compound configuration (Figure 84) is comparable to that of the helicopter discussed earlier. Rudder data for the isolated tail is presented in Figure 87.

Figures 85-92 present tail alone data for the compound tail. The effects of yaw angle for a range of angles of attack are shown in Figure 85, with the effects of angle of attack on yaw angle shown in Figure 86. Rudder performance is presented in Figures 87 and 88, and speed brake drag is shown in Figures 89-90. The performance of all "solution" tails is summarized in Figures 91-92.

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A limited amount of compound data with the landing gear extended was acquired during the test to represent the landing configuration. A sampling of this data is shown in Figures 92 - 99. The landing gear is shown to impact on the lift, drag, and pitching moment, but some of the trends, especially drag, indicate significant tare and interference effects due to the gear's proximity to the main strut. Therefore, all landing gear data should be used with caution.

### Compound Nacelle Fairing Configuration Selection

Five basic powered nacelle fairings were studied during this test  $(N_p, N_{p5}, N_{p6}, N_{p7}, N_{p8})$ . Of these only four are practical for use with the TF-34-2 engines. Configuration  $N_p$ , which shows the best stability, is not a practical solution.

The nacelle fairing configuration did not significantly affect aircraft lift, but does impact on drag and pitching moment. This information is presented in Figure 100 for the complete compound configuration with the original 110 square foot tail. Venting the fairing does not affect the pitching moment slope or drag. The minimum fairing  $(N_{\rm p7})$  improved the pitching moment slope by -15 cu ft/deg., but at the expense of 4.6 sq. feet of drag. The fairing with the truncated trailing edge  $(N_{\rm p8})$  did not affect the pitching moment, but did increase drag by 1.6 sq. feet. Of the fairings tested the existing fairing provides the best overall solution.

### Helicopter and Compound Empennage Downwash and Sidewash

Downwash and sidewash angles at the empennage may be calculated using balance data or directly using velocity or angle data. Only limited velocity data is available for these calculations, and therefore the balance data has been used exclusively in the derivation of these angles in this section.

Figure 101 shows the changes in sidewash angle versus angle of yew, and downwash angle versus angle of attack for the helicopter configuration. The sidewash curve should be symmetric and pass through the origin of the curve. The shift in the curve cannot be explained by reference to tail rotor hub effects and therefore it is recommended that the curve be translated up to the origin. The sidewash characteristics of the compound are similar (Figure 102) and it is recommended that this curve also be translated through the origin. Figure 102 shows that the one engine inoperative (OFI) condition does not have a significant impact on sidewash angles.

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Figure 103 shows the downwash angles for the compound configuration for angles of wing incidence and flap deflection. The wing downwash dominates the downwash trends, and results in a  $1-\partial \epsilon/\partial \alpha$  of .45 for angles of attack in the range of  $\pm$  5 degrees, improving for angles outside of this range. The downwash information found in Figure 103 was replotted in Figure 104 versus lift coefficient. The use of lift coefficient as the abscissa tends to collapse the data into one line, but the body and nacelle contributions to downwash prohibit complete generalization. Installation of the landing gear reduces the downwash angles as shown in Figure 105.

Figure 106 clearly shows that the compound upper horizontal tail is not effective at high positive attitudes, and is de-stabilizing beyond  $\propto = 12^{\circ}$  for many combinations of wing and flap angles. The upper horizontal tail is effective in the angle of attack range of  $\pm$  5 degrees (with  $1 - \partial \epsilon / \partial \omega$  ranging in general from .55 to .70), and can therefore provide the margin of stability necessary in that range.

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### Helicopter and Compound Empennage Selection

A total of 65 empennage configurations were evaluated during the test program. In addition to special configurations for tail alone testing and tail flow environment surveys, many combinations of vertical tails, lower horizontal tails, and upper horizontal tails were assembled and tested. Representative configurations are shown in Figures 9 and 10.

To evaluate the relative merit of each tail surface, an effectiveness coefficient, approximating the stabilizer lift coefficient, was defined as a function of the change in pitching moment between tail on and tail off configurations, the distance from the CG to the tail, and the tail area.

This effectiveness coefficient was then evaluated for general slope characteristics in the angle of attack range of  $\pm$  10 degrees, where tail performance at a wing incidence of 0 degrees, is critical. For the latter case the change in & from -10 degrees to + 10 degrees was used for a relative comparison.

To isolate individual tail surface effects, tail configurations that consisted of only lower horizontal tails or of upper horizontal tails were used where possible. When necessary combined tail configurations were used, but this should have little effect on individual tail performance as shown in Figure 79.

The ratings presented below illustrate the portions of the airstream at the empennage that provide air at more optimum dynamic pressures and downwash angles. While airfoil construction techniques varied from tail to tail, variations due to airfoil shape seemed only significant for the upper horizontal tails.

The following table shows the effectiveness rating of each lower horizontal tail in the compound configuration:

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Lower Horizontal Tail Designation (See Table I)	Effectiveness (From -10° to +10°)	Rating (% of Tail VIII (T61)
I	.441 to .502	74
II	(.639)*	99
III	.621 to .645	98
IV	.647	101
V	(.526)*	82
VI	.639	99
VII	.624	97
VIII(T <sub>61</sub> )	.644	100
IX	.407	63
Χ	.571	89
XI	(.582)*	90
XII	.468	73
IIIX	.643	100
VIX	.482	75

\* Based on data with both a lower and upper horizontal tail.

Comparison of ratings for these tails results in consistent trends for the effect of span, chord variations, and anhedral angle. The above table shows the selected compound lower tail is among the best of the tail configurations tasted. Span increases from 250 to 300 inches improves the effectiveness by 26%. Examination of Figure 154 shows that the airflow becomes more uniform for span segments at buttlines in excess of 110 inches.

Use of the good flow in the area of the tail tip can be made by increasing tip chord, although the effectiveness of the increase is only slightly (less than 2%) improved (i.e., the lift increase is nearly proportional to the stabilizer area increase). Root chord reductions remove ineffective portions of the stabilizer. The change from tail III to IV resulted in a 3% improvement in effectiveness. In general chord extensions over the full tail span degrade effectiveness by .5 to .7 percent for each percent increase in chord.

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Inver horizontal tail anhedral improves effectiveness by 10 - 11% for a 10° anhedral angle. Anhedral has two beneficial effects on the RSRA. First, it increases the difference between the wing and stabilizer axes beyond the existing angle of seven degrees (resulting from wing dihedral) so that smaller segments of the tail are. in the adverse flow field of the wing at any one angle of attack. Second, anhedral keeps the tip segments of the stabilizer farther from the engine efflux in the flight attitudes where reduced effectiveness due to wing downwash and engine efflux on the inboard tail exist. Assuming that the effects of anhedral and span are linear, a five degree anhedral angle would save 5% of the tail area or 5 square feet, if chord were reduced, or 3.5% (3.5 square feet) if span were reduced.

Increased size, in general, seems to improve the effectiveness of upper horizontal tails, but construction techniques may be the dominant item influencing effectiveness. The small upper tail (T<sub>41</sub>) is simply a 1/4 inch a uminum plate with rounded leading edges. This "airfoil" has poor drag characteristics (see Figure 91b) which enhance its effectiveness by increasing the pitching moment. Stall occurs on this "airfoil" at ± 9 degrees angle of attack, but because of the high downwash angle for the compound configuration, stall is experienced only for negative angles.

The geometrically similar 40, 80, and 120 square foot upper tails have similar characteristics, with effectiveness increasing about 9% between the 40 and 120 square foot designs. The upper tails with areas between 30 and 36 square feet were fabricated by cutting back the trailing edge and reducing span of the 40 square foot tail. This cut-back increased the trailing edge angle and increased the thickness ratio which might be responsible for the 30% reduction in effectiveness experienced between the 30 and 40 square foot upper horizontal tails.

Increased span and end plating improved the effectiveness of the vertical tail significantly. The effectiveness of each configuration was compared in the angle of yaw range of  $\pm$  5 degrees, where tail performance is reduced by large main rotor pylon interference effects, and in the range of  $\pm$  10 degrees, representing a normal operating range for the tail.

The 40 inch extension improved the effectiveness by 33% in the  $\pm 5$  degree range and 11% in the  $\pm$  10 degree range. The large improvement in the smaller yew range indicates that a major portion of the original tail is in disturbed air around  $\Psi$  = 0, but gets into "cleaner" air for angles of yew beyond 5 degrees. This effect was apparent in all of the

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modified vertical tails. A further 10 inch extension improves the effectiveness by 8 and 7 percent for the above ranges. Since the effectiveness is only slightly improved by the 10 inch extension at larger yaw angles, the vertical tail must be in relatively clean air above waterline 360.

The large chord rudder improved effectiveness by 7 percent (for the ± 5 degree yaw range). Vertical end plates mounted at the tips of the lower horizontal tail improved effectiveness by 16 percent in the range of ± 5 degrees, but detracted from the effectiveness outside of this range. The ventral fin extension was not effective, and even reduced stability for angles of yaw less than 5 degrees, probably due in part to model strut interference.

The horizontal tails contribute to directional stability in two ways. First, the drag on the horizontals is stabilizing, with the extensions of the lower horizontal tails contributing about 8 percent to vertical stabilizer effectiveness. The upper tails not only provide this increment to stability, but also provide end plating for the vertical tail. These result in an overall improvement in vertical tail effectiveness of 16 and 10 percent for the ± 5 and ± 10 degrees yaw ranges, respectively, if the area of the upper tail is not included in the vertical tail area. Unless the upper horizontal tail is needed for longitudinal stability, end plating would not be an effective means of achieving directional stability. Including the upper horizontal tail area as part of the vertical area reduces the net effectiveness of the vertical tail.

### FLOW VISUALIZATION

Four methods of flow visualization were used throughout this test to get a pictoral view of flow on and around the model. These methods were:

- 1. Oil
- 2. Tufts
- 3. Tuft Rake
- 4. Smoke

Oil flow, using a mixture of SAE 30 oil and lamp black, was used to show the effects of nacelles and fences on wing flow, as shown in Figures 107 - 111.

Figure 107 shows the flow separation patterns on the wing surface for runs with and without the solid nacelles. The adverse effects of the nacelle are apparent, with the formation of vortices on the aft wing surface. Closing the gap between the fuselage and wing improves the flow, but a vortex still is present when the nacelles are installed. Landing gear and nacelle fairing spoilers have little effect on the wing upper surface flow. Figure 108 shows the flow straightening effects of wing fences.

Figure 109 presents similar flow studies with the powered nacelles installed in place of the solid nacelles. These photographs show that the nacelle fairing has an impact on the wing surface flow. The air supply pipe fairing configuration (N<sub>p</sub>) has little impact on the flow patterns, but the simulation of the full fairing resulted in flow patterns similar to those seen in Figure 107. Installation of fences helps to straighten the flow. Figures 109i and j show the impact of fences located at the flap mid-span and 5 inches further outboard. Moving the outboard fence to a location 7.5 inches inboard of the 1ap mid-span fence further improves the flow.

Figure 110 shows the wing flow pattern without fences for the Phase II wing location with nacelle fairing  $N_{\rm p5}$  Figure 111 shows the flow improvements due to the fences for similar conditions.

Figures 112 - 118 show the nacelle and wing flow patterns using tufts. Figure 112 illustrates the flow for wing W, at an incidence of 15 degrees. Inboard sections of the wing can be seen to stall prior to the tip sections. Figure 113 shows flow patterns for a zero degree wing incidence with the nacelles off. The effect of the wing flow on the fuselage is apparent, and shows that an object such as the nacelles must have an impact if placed near the upper surface of the wing. The wing stalls more uniformally with the nacelles off. Figure 114 shows the effect of the nacelles at a zero degree wing incidence.

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Figures 115 and 116 show the effects of an angle of yaw variation with the nacelle off and on. No unusual effects are evident.

Figure 117 shows the wing flow with the powered nacelles installed. Figures 118 - 121 illustrate the flow conditions on the tail surfaces. Figure 118 shows that the lower horizontal tail stalls about  $\alpha = 17.5$  degrees, while Figure 119 shows that the upper horizontal tail does rot stall at high positive angles, which is explained by examination of an high downwash angle at the tail at those angles (see Figure 106). Figures 120 and 121 show similar results.

The tuft rake, Figure 122, shows the flow directions in the vicinity of the empennage. Areas of high downwash can be seen and the nacelle fairing vortex flow, quantified in the anemometer testing, appears on the rake as blurred tufts (inboard in tuft rows 10 - 13).

The use of smoke confirmed the flow patters described above. Tunnel conditions did not permit clear photographs of smoke flow, but basic observations are listed below:

- 1. Good flow around wing except where nacelle interference caused inboard flow separation.
- 2. Flow around the nacelle and nacelle fairing is good. Flow upwash due to nacelle incidence ( $i_N = -3.5$  degrees) was visible.
- 3. The disturbance from the main rotor head is large and extends about two feet above the model.
- 4. No flow separator vortices could be distinguished.
- 5. Upper horizontal tail is in a high downwash field at angles of attack greater than 0 degrees, but the flow is ownerwise undisturbed.

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### SURFACE PRESSURE DATA

### Test Procedure

The RSRA model was instrumented with 163 pressure taps on the right side of the aircraft. The pressure taps on the fuselage and main rotor pylon were arranged in a matrix form which lends itself to crossplotting and interpolation.

Pressure data were acquired for a limited number of representative configurations. The installation of the model and the placement of electrical leads for the pressure transducers made it possible to obtain pressure data at the same time as model forces were measured. The use of Scanivalves incorporating a pressure transducer allowed on-line data processing as well as off-line output. Each static pressure transducer had a range of ± 7.5 psi.

### Data Presentation

Pressure data is presented in terms of pressure coefficient where

$$C_{\mathbf{p}} = \underline{\mathbf{p}_{\mathbf{N}} - \mathbf{p}_{\mathbf{0}}}$$

The precision of the pressure data was evaluated for configurations without nacelles at dynamic pressures of 80 and 55 psf. For a 95% confidence level, the  $C_p$  precision is  $\pm$  .025 at a dynamic pressure of 80 psf based on the analysis of 82 pressures at  $\mathbf{c} = \mathbf{\Psi} = 0$  degrees on the cockpit section for configuration FPBTB<sub>m</sub>. Similarly, the  $C_p$  precision is  $\pm$  .035 based on the analysis of 108 pressures at a q = 55 psf for configurations FPBT, FBPBT, and FPBWT. These tolerances compare favorably with those of the YUH-60A tests, Reference 3.

Tables  ${}^{\rm VT}$  through XIV present surface pressure data for the helicopter configuration  ${\rm FPBTB}_{\rm m}$  for the following aircraft attitudes:

Table XI 
$$\Psi = 0^{\circ}$$
,  $\alpha = \pm 20^{\circ}$ 

Table XII  $\alpha = 0^{\circ}$ ,  $\Psi = \pm 20^{\circ}$ 

Table XIII  $\alpha = -10^{\circ}$ ,  $\Psi = \pm 20^{\circ}$ 

Table XIV  $\alpha = +10^{\circ}$ ,  $\Psi = \pm 20^{\circ}$ 

Figures 123 - 127 are representative samples of plotted pressure data at buttline zero and waterline 190. Figure 123 includes the results of a potential flow calculation using computer program Y179 (Referen e 6).

Tables XV through XVII present surface pressure data for compound configurations, with and without the powered nacelles.

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### EMPENNAGE TOTAL PRESSURE DATA

The flow at the empennage (fuselage station 664) was surveyed during Phase I of the test to determine the dynamic pressure environment for the vertical tail, and for a range of three horizontal tail locations. The total pressure rake designed to survey the empennage was attached to the model in place of the tail surfaces as shown in Figure 9i - 9k. The pressure tubes of the rake were .063 hypo connected to a manometer board in the control room by plastic tubing. Tube locations, in the full scale coordinate system, are shown in Figure 128. Polaroid photographs of the manometer board at each test point were taken to obtain a permanent record of the data.

Empennage total pressure data was acquired for a range of wing incidences for model configurations FPBW<sub>5</sub>T<sub>0</sub> and FPBN<sub>pl</sub>W<sub>5</sub>T<sub>0</sub>. Variables included angle of attack, angle of yaw, flap deflection angle, and nacelle thrust (the latter two at i<sub>w</sub> = 15 degrees only). Manometer board photographs, showing tunnel total and static pressure, and local empennage total pressures are shown in Figures 129 through 148. This data can be converted to a dynamic pressure ratio using the following relationship:

$$q_{T/Q}$$

$$= 1 + \frac{H - H_T}{PS - H}$$

where

qT/q is the local dynamic pressure ratio

H is the tunnel total pressure

PS is the tunnel static pressure

is the measured total pressure for each positive tap

The result of this calculation is presented, for example, in Figure 149 for configuration  $\text{FPBN}_{\text{PJ}} \text{W}_{\text{S}} \text{T}_{\text{O}}$ ,  $\text{i}_{\text{W}} = 0$ , Trim Thrust,  $\boldsymbol{\Psi} = 0$  for a range of angles of attack. Dynamic pressure losses near the tailcone can be seen in this figure. Also evident is the impact of the jet efflux at  $\boldsymbol{\alpha} = -8$  degrees.

The spanwise integration of the dynamic pressure ratio at each tail surface location is used in the simulation of helicopter flight using "tail alone" and "tail off" balance data. The total pressure ratio,  $\mathbf{q}_{\perp}/\mathbf{q}$ , has been calculated for all RSRA tails. The results are presented in Figures 150 to 152 for each tail surface. The data is presented as measured; no adjustments have been made to linearize or shift data fairings.

### EMPENNAGE ANEMOMETER DATA

The flow velocity magnitude and angularity were measured in the vicinity of the RSRA horizontal tails with a triaxial hot wire probe anemometer system. The probe location was remotely controlled with a traversing mechanism which permitted the probe to be positioned within a 30" x 30" vertical plane located at fuselage station 664 (at an angle of attack of 0 degrees). For each data condition evaluated, the axial velocity, the vertical velocity, and the sidewash velocity were measured within the traversing grid. All velocity measurements were performed without the horizontal to 1s (Configurations FPEN<sub>P5</sub>W<sub>7</sub>T<sub>11</sub> and FPBW<sub>7</sub>T<sub>11</sub>).

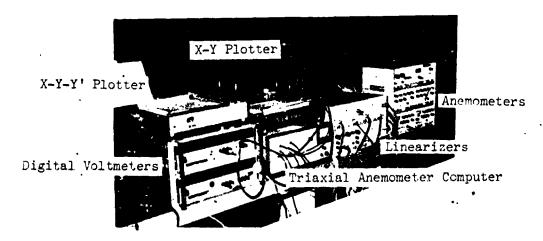
Analysis of the resulting data indicated the presence of a destabilizing downwash region over a substantial portion of the lower horizontal tail. The interfering downwash is created by a strong vortex trailing from the junction of the nacelle pylon and the nacelle body. The strength of the interferring vortex did not vary appreciably as the nacelle fairing was modified.

Flow surveys without the nacelle and nacelle fairing indicated only minor flow distortion at the lower tail location due to wing lift induced downwash.

### Instrumentation

The triaxial hot wire probe, which was used to measure the flow velocities, contained three orthogonal wire elements. Each element had

### ANEMOMETER INSTUMENTATION



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a sensitive wire length of 1.25 millimeters and a diameter of five microns. The flow sensitive wire length was limited by gold plating which covered the end of the wire support prongs and a small segment of each wire end. The plating reduces the interference among the three wires, and between the support prongs and wires. This interference is sometimes experienced in a skewed flow field.

The probe wires were heated by three constant temperature anemometers. The voltages required to maintain the constant temperature of the wires, a measure of the velocity normal to each wire, were passed through signal linearizers to a specialized analogue computer. This computer circuit transferred the linearized voltages for the three wires from the probe coordinate system to the wind tunnel coordinate system. These final velocity voltages were then used to drive the velocity ordinate on X-Y plotters. The conversion from the probe coordinate system to the tunnel coordinate system was required since the probe wire triad formed a 54.7 cone with respect to the tunnel axis system.

The traverse mechanism was driven by two ½ horsepower electric motors which were mounted on the traverse frame and operated remotely from the wind tunnel control room. Probe position was monitored by two potentiometers geared to the drive mechanism. The output voltage signals from these potentiometers were wired directly to the plotters recording the velocities and used to drive the position axis.

### Test Procedure

The instrumentation set-up permitted continuous data acquisition as the probe was traversed parallel to the horizontal tail plane. For each model data condition(body attitude, and nacelle configuration), horizontal data sweeps were obtained at various vertical probe theights in order to define the flow conditions which would be encountered at different horizontal tail mounting positions. Since the mechanism was positioned during this test to traverse to the right and up from fuselage station 209 at zero angle of attack, velocity data below the fuselage could only be obtained at negative body attitudes.

The on-line velocity data was continuously monitored for significant trending information and data quality during acquisition. As a result of this inspection, it became apparent that the calibration of the hot wire elements were slowly drifting with time. Since the sensitivity of hot wire probes is susceptable to drift from oil contamination, and because the model apparatus showed evidence of surface oil, it was concluded that the wire calibration shift was probably due to oil film build-up. The problem was corrected by periodically traversing the probe to a position outside the model flow interference area and readjusting the wire overheat ratio's until the original calibrations were matched. The original calibrations were performed by the probe supply vendor. As a result of the overheat ratio adjustments, slight velocity scaling errors were introduced in the data. For most run conditions, the error does not exceed ± 5% of q. The flow angularity data was not effected by the calibration shift.

Additional error may be introduced by the traverse system and its support structure. Figure 153 shows the effects of the traverse on lift, drag, and pitching moment. The effect on drag is significant. The anemometer data itself showed a decrease in flow velocity beyond buttline 130, or within 8 inches of the traverse supports.

### Data Analysis

The velocity data from selected conditions were reduced to yield plots of local downwash (  $\epsilon$  ), sidewash (  $\sigma$  ), and dynamic pressure ratio  $(q_{T}/q)$  versus full scale buttline. These data are presented in 154 through 156 . The fuselage stations corresponding to the data varies slightly with body attitude since the probe was translated in the horizontal/vertical tunnel axis plane. The probe, however, was located at the fuselage station of quarter chord of the baseline lower horizontal tail at zero degrees of body attitude.

A large portion of the on-line data obtained was not reduced due to the large quantity recorded and the fact that the major trends were not substantially altered as nacelle fairing configurations were changed. The specific run conditions selected for analysis were chosen to illustrate the major characteristics of the wing-fuselage-nacelle interference in the vicinity of the horizontal tail. The data, reduced to  $q_m/q$ ,  $\epsilon$ , and  $\sigma$ , are presented in Figures 154 - 156. In these figures, sidewash is positive to the right, and the normal flow, labeled downwashis positive up. This is indicated on Figure 154a.

This data consists of Run 527 (FPBN<sub>P8</sub>W<sub>7</sub>T<sub>11</sub> at  $\alpha = 0^{\circ}$ ,  $-5^{\circ}$ ,  $-10^{\circ}$ ), Run 528 (FPBN<sub>P</sub>W<sub>7</sub>T<sub>11</sub> at  $\alpha = -5^{\circ}$ ) and Run 535 (FPBW<sub>7</sub>T<sub>11</sub> at  $\alpha = -5^{\circ}$ ,  $-10^{\circ}$ ). Runs 527 and 535 contrast the flow environment obtained with and without nacelles while runs 527 and 528 contrast the maximum variation in the nacelle interference experienced between the tested configurations.

The flow interference measured for the no nacalle configuration, Figure 156, indicates only minor distortion in flow angularity in the vicinity of the horizontal tail. Furthermore, the downwash which is present is fairly constant throughout the buttline variation of the lower baseline stabilizer span and assumes the characteristic:

36/32 associated with wing induced downwash. There is no indication of discrete vortex flow patterns eminating from the upstream body structure. With this flow environment, only minor pitch stability washout from the wing induced flow would be expected.

In contrast, the data obtained with the N<sub>D</sub> nacelle fairing configuration, presented in Figure 154, displays classic vortex interference over the inner 50% of the lower horizontal tail position. The position of the interfering vortex, approximately buttline 50, indicates upstream formation at the junction of the nacelle fairing and nacelle. The fact that the volticity is being shed from the outer end of the nacelle fairing rather than the root junction of the pylon and fuselage, can also be confirmed from the sense of rotation of the trailing vortex filament. For negative body attitudes, and zero degrees of wing incidence, the vortex induced velocities are negative on the outboard side of the vortex core and positive on the inboard wide indicating a clockwise rotation which is consistant with outboard shedding from the nacelle pylon. The data examined shows that the waterline location of the upper tail configurations (360) is above the nacelle fairing interference region.

Inspection of the data obtained with  $\mathbb{N}_{p,8}$  for angles of attack of  $0^{\circ}$ ,  $-5^{\circ}$ , and  $-10^{\circ}$  reveals that the strength of the interfering vortex increases significantly as the body attitude becomes more nose down. Because of the vortex location and rotation sense, a large  $\partial \mathcal{E}$  /dec is present over the inner 50% of the baseline horizontal stabilizer which would seriously degrade the stabilizer effectiveness.

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Data presented in Figure 155 for the  $N_p$  nacelle pylon configuration at -5 body attitude is similar to that obtained with the  $N_{p,8}$  pylon and illustrates the consistancy of the interference despite substantial variation in the detailed pylon geometry.

Flow data from all of the surveyed nacelle pylons showed large dynamic pressure increases as the probe entered the nacelle flow region. Peak dynamic pressures up to 2.2 times the free stream q were measured at the center of the nacelle efflux. Figures 157 - 159 are contour maps of  $q_{\rm m}/q$  for angles of attack of 0°, -5°, and -10°. As discussed in the following paragraphs, the q variation partially negated the flow downwash effects and augmented the pitch stability when the nacelle flow impinged on the lower horizontal stabilizer.

Figures 160 through 162 were constructed from the flow data obtained with the  $N_{p8}$  nacelle fairing to evaluate the degree of stabilizer lift washout due to the vortex induced flow generated by the pylon. Figure 160 shows the true spanwise angle of attack distribution of the stabilizer at body attitudes of  $0^{\circ}$ ,  $-5^{\circ}$ , and  $-10^{\circ}$ . Inspection of Figure 160 indicates that two distinct flow regimes are experienced by the inner and outer portions of the tail. Outboard, flow interference due to wing downwash (upwash at  $\alpha = -5^{\circ}$  and  $-10^{\circ}$ ) is present. Inboard, however, severe upflow occurs, further reversing the true angle of attack gradient from that of the geometric stabilizer angle for angles of attack of -5 and -10 degrees. For clarity, the planform and position of the baseline stabilizer is noted on the plot. It can be seen that the tapered planform of this stabilizer with inboard area weighting serves to exaggerate the adverse pitch stability effect of the nacelle fairing interference.

Figure 161 illustrates the relative integrated lift of the stabilizer as a function of body attitude. Figure 162 shows the relationship between the mean stabilizer downwash (£) and the stabilizer angle of attack for negative body attitudes between 0 and -10, calculated from velocity integrations over the baseline lower tail planform. Data is presented with and without consideration of the q effects from the nacelle flow. The mean upwash flow angles were calculated with an area weighted integration of the flow angularity over the stabilizer span. For the constant q case, the axial flow was assumed equal to the free stream velocity; whereas the data with dynamic pressure variations was calculated with q weighting in addition to the stabilizer area weighting. While both trend lines indicate increasing upwash between 0 and -8, the effect of the additional nacelle flow dynamic pressure is sufficient to eliminate the net stabilizer lift washout at -10. The figure indicates that approximately 73% of the tail effectiveness (1 - 26/doc = .27) is washed out by

wing nacelle interference between  $0^{\circ}$  and  $-5^{\circ}$ . Included on Figure 162 is the downwash computed from Phase I balance data, and shows excellent correlation with the anemometer data.

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The downwash calculated from the anemometer data does not include the effects of induced flow generated by the tail. An additional downwash component will be caused by the tails tip vortex and the non-uniform lift distribution on the tail. The magnitude of these effects has not been computed.

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### CONCLUSIONS AND RECOMMENDATIONS

### Conclusions

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- 1. The RSRA empennage must be modified to provide the desired stability levels. The directional stability is best improved by increasing vertical tail span, since this places the added area in a more optimum flow environment. Longitudinal stability is improved significantly by increases in lower horizontal tail span. Horizontal tail anhedral improves longitudinal stability. The inboard sections of the tail tend to degrade stability and therefore area in this region should be minimized.
- 2. An upper horizontal tail improves both direction and longitudinal stability and, without an anhedral lower horizontal, is necessary for stability between angles of attack of ± 5 degrees.
- 3. The powered nacelles cause a de-stabilizing pitching moment. Properly scaled nacelles will reduce this effect.
- 4. The data presented is sufficient to further analyze tail design if necessary.
- 5. The baseline nacelle fairing  $(N_{p5})$  had the best overall characteristics of those tested.
- 6. Model disymmetry has caused some discrepancies in the test data, especially the rolling moment parameter for angles near wing stall.

### Recommendations

- 1. The test data from the Langley Research Center testing of this model should be compared with the data presented herein. The pitching moment trend with nacelle size should be carefully analyzed.
- 2. The flow behind the nacelle support fairing impacts on tail performance and should be further studied in order to minimize the fairing's impact on the aircraft.
- 3. Define model disymmetry and evaluate the resulting effects on balance data.
- 4. Evaluate data trends with solid, powered, and ring nacelles and determine for most representative configuration for use in future testing.

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TABLES AND FIGURES

TABLE I EMPENNAGE CONFIGUR TIONS

STABILIZERS	
HORIZONTAL	
OWER	

TAIL	USED IN TAIL NO:	ILLUSTRATED IN FIG.9, PART AREA	AREA	SPAN	Œ	DESCRIPTION
н	P-21, 33, 35-37,46, 48,49	I,A	74.99	h52	5.98	75 FT BASIC
ㅂ	27	>	84.63	8	7.39	BASIC + EXTENDED SPAN
目	28, 31, 32,51-53,57	<b>∀,</b> ×,∀	<b>%</b> 0.58	303	7.04	BASIC+CONSTANT CHORD EXT
呂	38,39,43,45	8,6	85.50	303	9h.'	III+REDUCED INBD. CHORD
Ħ	40,42	۵,۵	72.14	<del>16</del> 2	129	BASIC-CONSTANT CHORD
Ħ	55,54	<b>¥</b>	48.10	303	6.50	III + EXTENDED CHORD
Ħ	56,58	Similar to K	10.88	300	5.64	5.64   HIFT CONSTANT CHORD
艮	49'69'19'09	ر	80.00	300	6.37	BASIC +CCNISTANT CHORD BA
Ħ	1,3,5,8,10,12-14	۵, د, کا ۳	94801	250	3.97	110 FT BASIC
M	6,23	d,e,r	126.85	317	8	C 50 110FT BASIC+ EXTENSION
Ħ		ę,	139.54	317	5.00	5.00 X+ 10% CHORD EXTENSION
Ħ	22,24,30	ð	וכינסו	246	3.9	3.91 NOFT ANHEDRAL
H	₹	**	12.55	312.5	5.43	5.43 AUFORAL + EXTENSION
XX	16-18, 34, 54	7	150.2	784 284	4.00	4.00 ISOFT BASK

# TABLE I (CONCLUDED)

VERTICAL STABILIZERS

1	USED IN TAIL NO.	L NO: LLUSTRATED IN FISS, PART AREA	AREA	SPAN	æ	DESCRIPTION
4	8-2'6')	ع,د,م,و	49.5H	152	1971	BASIC
0	10,12-34	1,7,0,p,5, W,V,X,Y,	125.69	192	2.04	ISO'S RUDDER, 40" EXT.
U	35	4	135.07	204	2.14	ABOVE IN TH EXT. VENTRAL
۵	36-44,46-53,58-65	B,E,F,H,I,J,L,M	113.92	192	2.25	2.25 BASIC WITH 40" EXT.
W	45, 54-57	G,K	116.69	202	2.43	2.43 BASIC WITH 50" EXT.
L	ຸຄ	Ų	22.5	7	ı	- VERTICAL END PLATES(2)

# UPPER HORIZONTAL STABILIZERS

TAIL	TAIL USED IN TAIL No : ILLUSTRATED IN FIG. PART AREA	ILLUSTRATED IN FIG.9, PARE	AREA	SPAN	8	DESCRIPTION
_	8,39,41,42,52,58-60,63,63	h, E, L, M	917.1	(03	4.29	4.29 COMPOUND TAIL
7	12,18,19,24-29,35,36,40,43,44	P,v, x, F	40.00	152	4.00	
ო	13,17, 20, 25, 30, 31	گئ اد	80.00	216	4.00	
4	14-16,21	0	120.00	564	4.00	
Ŋ	2h'9h	I	30.00	132	4.00	4.00 CLIT DOWN 40FT TAIL
9	80	Similar to I, J	32.70	オコー	4.40	4.40 30FT2T-TAIL+EXTENSION
7	49, 50, 53, 62	T,J	35.41	159	5,15	5.15 HELICOPTER TAIL

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	VERTICAL STABILIZERS	1	(لعاد 106)	∢	(Tail Alone)	A, A	4	4	4	(Press. Rake)	Ø	(Anemoneter)	0-										<b>→</b>
4	TA1L DESCRIPTION	-	7	ო	J	ß	و	7	60	σ	0	Ξ	12	13	Ī	<u>ن</u>	9	ŗ.	<u>.</u>	<u>6</u>	20	7	22

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		-	÷,					N T	ر م	9.8	+ 60,63				•		
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Ä	LASITEBY SIZAB)A	1		•					-			1,3	.9	۲.			
TABLE III:	VERTILAL STABILIZERS	Lower House Totales	Nove	I (75+1 BASIC),	II (75 FT* BASIC+ ENTINDED SPAN).	III (75 sT P. Banca Constant Chogo Entriso)	IY (正+ REDUCES INBOARD CHORD).	T (15 FT 305-CONSTANT CHORD).	TI (TIL + ENTENDED CHORD).	III (11) FT CLUSTANT CHORD).	II (34516 + CONSTANT CLORE EXTENSION).	X (110 FT BASIC)	X (110 FT* BASIC + ENTENSION).	II (Islof CHORD ETTENSION).	WE ( : . ) FT - AMMEDRAL).	XII (110 FT AMEDRAL + ERTENSICH).	WIT (150 CT Basic)

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		BI	•		o. 41	27.5	35.5	39.0	39.0	36.0	27.5	14.0	0	0	14.0	27.5	36.5	39.0	39.8	36.8		27.5	14.0	0							
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TABLE IV	Cockpit	WL	190.0	177.0	178.5	190.0	205.5	207.0	177.0	178.5	180.0	190.0	209.0	215.5	218.0	171.5	172.3	176.5	190.0	221.5	229.3	230.3	170.3	171.0	174.5	180.0	190.0	216.0	236.0	241.0	241.0
		BI	0	0	14.0	25.0	14.0	0	0	14.0	27.5	32.5	27.5	14.0	0	0	14.0	27.5	35.5	27.5	14.0	0	0	14.0	27.5	34.0	37.5	37.0	27.5	14.0	0
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TABLE IV(continued)
Fuselage

¥.	159.0	159.0	161.2	180.0	190.0	216.0	231.0	247.0			169.0	172.0	180.0	190.0	216.0	231.0	247.0	169.0	169.0	172.0	180.0	190.0	216.0	231.0	247.0
BL	<b> </b> c	14.0	27.5	36.8	39.0	40.0	39.0	27.5			14.0	27.5	36.8	39.0	0.04	39.0	27.5	0	14.0	27.5	36.8	39.0	40.0	39.0	27.5
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Ţ	163.6	164.1	169.5	180.0	190.0	216.0	231.0	247.0	249.0	159.0	159.0	161.2	180.0	190.0	216.0	231.0	247.0	159.0	1.59.0	161.2	180.0	190.0	216.0	231.0	247.0
間	0	14.0	27.5	36.8	39.0	0.04	39.0	27.5	14.0	0	14.0	27.5	36.8	39.0	40.0	39.0	27.5	0	0°†T	27.5	36.8	39.0	70.0	39.0	27.5
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TABLE IV(continued)

Tailcone

1,5

县	190.0	216.0	231.0	243.5	245.5	173.5	174.0	178.0	190.0	216.0	231.0	241.5	244.0	178.0	179.0	190.0	216.0	231.0	239.0	239.5
温	35.5	36.5	35.5	27.5	14.0	0	14.0	27.5	33.5	34.5	33.5	27.5	14.0	0	14.0	28.0	29.0	27.5	14.0	0
SF SF	9.17				_	431.6	-		-	<u> </u>			<b>&gt;</b>	91.6					<b>—</b> )	-
Tap No.	322	323	32h	325	326 🖸	327	328	329	330 ●	331	332	333	33†	335	336	337	338	339	340	341
WI	169.0	169.0	172.0	180.0	190.0	216.0	231.0	247.0	170.5	171.0	173.5	180.0	190.0	216.0	231.0	2,15.5	172.0	172.5	173.5	180.0
<u>18</u>	0	14.0	27.5	36.8	39.0	10.0	39.0	27.5	O	14.0	27.5	34.5	37.5	38.2	37.5	27.5	0	0.4،	27.	<b>\</b> •
2 <u>F</u>	36 5					,		-	391.7				<del></del>			-	411.6		}	-
Tap No.	342	303 🔊	304	305 👁	306	307	308	309	310	311	312	313	314	315	316	317	318	319 💿	320	321

TABLE IN concluded)

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Tap No.	FS	<u>B</u>	国	Tep No.	FS	귊	国
420	200.0	0	268.5	ηE η	323.3	0	293.7
121	201.5	0	270.0	435	-	12.0	293.0
1,22	OPEN	12.0	270.0	1,36	->-	21.7	269.0
423	212.0	0	280.0	1437	361.5	0	286.7
424		12.0	280.0	1,38		12.0	283.0
425	222.5	0	283.0	1439		18.0	269.0
75		12.0	280.5	011		19.1	255.0
1 <sub>4</sub> 27	->-	23.0	269.0	14,41	391.7	0	275.0
1,28	242.0	0	286.3	747	_	11.0	269.0
429		12.0	281.0	544	_	11.5	255.0
7 30	-	23.0	269.0	ካካካ	OPEN	0	264.0
1,31	282.8	0	292.0	544	->	6.0	255.0
432	->	12.0	291.0	944	-	Ö	251.5
433	-	23.0	269.0				

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REPRODUCIBILITY OF THE REGULAL CAGE IS POOR

SER-72011					REYNOLDS No. SWIFEP PRESSURE	DATA	m70										REDUCE & FROM 80 TO 55 MSF	. Sween	SURFER			·			
:	REWARKS	JWS		280	REYNOLOS NO	No Good	PRESSURE DATA		<b>→</b>						No GOOD		REDUCE & FRO	PRYNOLDS NO. SWEED	REYNOLUS NO. SURERD						
	CONTROLS													56= 10			26:-10		,	02-: 3	0/ = °C	مريد : مره	01-: %	1	Sca = 15
TABLE T WIND TUNNEL RUN LOG	$\mathcal{I}_{oldsymbol{\omega}}$	i																							
TABLE T	$t_{re}$	0 -			-						-						*								<b>→</b>
WIND T	Inc	2,5							<b>→</b>	7.5	12.5	-7.5	-2,5	2,5											<b>-</b>
	130 WER	1			<del></del>				,																<del></del>
	ふつられている	βž	6 4.7	4 = ±10	0	r	¥. :	7 × 20	1/2:-10	8	Х	В	8	ሄ	8	8	b	0	0	В	£	£	1.5	~ ·	8
	CONFIGURATION	F128 T 87																							<b>&gt;</b>
	Ren	- 0	40	7 3	h	9	~	% O~	0/	145	12	57	14	7	9/	17	\$0	61	80	Ñ	ر <u>د</u> ز	23	44	7	9~

SER-72011		PERMINISTRATY OF THE CALCELLAR PAGE IS POOR	
	REMARKS	PRESSURE DATA  PRESSU	
TABLE T WIND TUNNEL RUN LOG (CONTINUED)	CONTROLS	25. = 35. 25. = 35. 25. = 55. 27. = 55.	
00) 907	$\mathcal{I}_{w}$	0	
TABLE T	Tre	<i>0</i> → 1 →	J
ID TUNN	The	\(\frac{\lambda}{\sigma}\) →	
WIN	Power	1	
	RUN TYPE	LET RRACKOTROTER RELIEF TO THE RACK RACK RACK RACK RACK RACK RACK RACK	
	CONFIGURATION	F P B T B T B T B T B T B T B T B T B T B	
-	Run	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

SER-72011	Remorks	NO GOOD REDEAT SY RUN ABORT, COMPUTER FAILURE REPEAT TO KTS OF AUN 65 BOTH AILEAONS DOWN  OIL FLOW, &= 5, North WE US TOW, &= 5, North WE
WIND TUNNEL RUN LOG (CONTINUED)	CONTROLS	Co C
D) 507	In	o → 5 →
TABLE Y	7	<b> </b>
AT NNUT ON	Int	·
WIN	Power	Į.
-	Run Type	O O S E T R R R R F E R R R F E R R F F R R F E R R R R
	CONFIGURATION	FPBWNTZ FPBWTZ
	Run	2777777966665667677777777777777777777777

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SER-72011	PEMBAKS	OIL FLOW, $\alpha = 5$ , No Balance Date  OIL FLOW, $\alpha = 0$ OIL FLOW, $\alpha = 0$ OIL FLOW, $\alpha = 2.5$ , No Balance Date  FILED AST PATTION OF WRITED DATE  FILED AST PATTION OF WRITED  OIL FLOW, $\alpha = 2.5$ IN BALANCE DATE  OIL FLOW, $\alpha = 2.5$ IN BALANCE DATE  OIL FLOW, $\alpha = 0.05$ Frunce Date  No food  Server Data  OIL FLOW, $\alpha = 0.05$ Frunce Date  OIL FLOW, $\alpha = 0.05$ Frunce Date
TABLE X (CONTINUED)	.CON TROLS	Co C
))) 90T	In	$ \tilde{\nu} \longrightarrow \nu \longrightarrow \tilde{\nu} \longrightarrow \tilde{\nu} $
ABLE VEL RUN	$I_{\nu\epsilon}$	
T TUNN	$I_{ht}$	<b></b>
WIND	Power	
-	RUN	RORREROCKROCRERORROROS
	CONFIGURATION	FPBW, 72 FPBW, 72 FPBW, N72 FPBW, N72 L FPBW, N72 L
	Rux	20 - 10 20 20 20 20 20 20 20 20 20 20 20 20 20

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THE REPORT OF THE PROPERTY OF

SER72011		BBOATED - LOST STRUT FAIRING.  OIL FLOW, CT-2 No BRANCE DOTA  SMU  OIL FLOW, CT-2,  SMU CHECKS OF  SYSTEM, PRESSURIZED  AND UN PRESSURIZED
_	Remarks	SHORTED - LOST STRUT FAIR  OIL FLOW, A=2 No BARNICE DITO  SMU  POWERED NACELLE CHECK OUT  OIL FLOW, A=0,  OIL
TABLE TOWNEL RUN LOG (CONTINUED)	CONTROLS	2 d = 2 d
)) ) ) ) ) )	$\mathcal{I}_{\nu}$	$i^{\prime} \longrightarrow 0 \longrightarrow i^{\prime} \longrightarrow i^{\prime} \longrightarrow$
BLE X	$I_{V^{\pm}}$	· · · · · · · · · · · · · · · · · · ·
AT TUNNE	Zht	1 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.
MIN	Power	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
-	RUN TYPE	11,00001,888888886808688
	CONFIGURATION	FPBW, TE FPBW, NTBT FPBW, TBT FPBW, TBT FPBW, TBT FPBW, NPTBT FPBW, NPETBT
	Run	60 60 60 60 72 72 72 73 73 73 73 73 73 73 73 73 73 73 73 73

SER-72011	REPR	ODUCII INAL P	BILITY AGE	of Is P	THE OOR		ANCE DATA							No Bre sever Arm	<b>→</b>	·	LAKE DATA		ALANCE DATA	, re	
SER	REMARKS	SM V PRESSURE DATA		ENG CALIB, CT : 0,0	ENG CALIBA : J.S.	TUBE DOTA	OIL FLOW, X = O, NO BALANCE DATA	PRESSURE DATA	ALLERON DROOP	WRING &	ABORTED, WRONG &			011 FLOW, 0 = 0, NbB	011 FROW 8=0		OIL FLOW & = O, NOBALANCE DATA		OIL FLOW, X=O, No BALANTE DATA	~	
TUNNEL RUN LOG (CONTINUED)	CONTROLS		57:20	y a	36:25	52:25	Sp: 25	5-30	St. 30	5-30 8-30	مرد عرص = حر	1 - 30 00 - 00 C	S. 30 6 : 5	`		52 - 25	S = 25	25 = 25 C	L	Sp: 39, 54.5	
<ol> <li>50 507</li> <li>7</li> </ol>	$\mathcal{I}_{w}$	15						<b>&gt;</b> !	マー				<b>→</b>	15						<b>→</b>	
ABLE I	$I_{\nu \epsilon}$	0 —														····				<b>→</b>	
	$I_{ht}$	2.5								->	52-	571	, v. ý		·					<b>→</b>	•
QNIM	Power	TRIM		<b>\</b>	1 1	TRIM		<u> </u>					XaX	TRIM						<b>→</b>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
_	RUN TYPE	8 8	8 8	3	1	γ	0	ጸ	8 8	8	В	8 1	8 8	0	0 ,	ጻ	0	8 8	9 0	8	
	CONFIGURATION	FPBW, NPETBT	→ → // day	101 0X 120 17	FPBW, NP, TBT				>	FPBW No. TBT				FOBW NP, TBT	FPBWZNP, TBT	>	FPBW3NP, TBT		>	FFS WAND, TBT	
`	RUN	131	/33	135	981	136	139	04.1	/ <del>/</del> / 5	• )	144	54/	147	84/	641	157	152	153	155		

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ALLERON DROOP, 9:55 \$50 5 MAX SER-72011 9-55 AND 80 REPEAT/ABILITY OF ALLERON DROOF REMARKS 745 Sp = 30 Se = 5 Sp: 30, Se. 5 01 = 40 OF= 10 CONTROLS WIND TUNNEL RUN LOG (CONTINUED) 08= 30 05:30 5 = 40 0/= 2p 05 = 30 5 = 30 30 Hz TABLE X Lie 2,5 POWER ILE 7. 7. TRIM TRIM 181W XVX TRIM 7612 OFI IJO TRIM 5.2 NAX TOKE Q=25 9 a: 2.5 1215 8 75 CONFIGURATION RUN
TYPE b γ ጻ Y b 8 γ ጸ 8 K  $\delta$ β FPBW4 NP, TBT FPBN3NP, TBT FPBWS NO, TB7 RVR 1221 173 591 159 09/ 162 491 165 89/ 130 178 179 200 157 291 175 921 121 172 158 191 991 No 51

WIND TUNNEL RUN LOG (CONTINUED) H3 5  $I_{c_{\mathbf{t}}}$ IT, -2.5 -6.5 2,5 11.5 7.5 7.5 Power z. z. TOLE XUU JOLE OEI TRIM XUW OEI 4, x=2.5

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05: 20

St = 30

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FPB WS NP, TBT L

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of = 30

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SER-72011

REPEAT 182, VERIET

of = 30 St = 30 Sf = 30

Sx = 30 SF = 30

Sr = 30

REMARKS

CONTROLS

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FPBWSN, TBT

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TABLE X

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SER-72011			•												Brook ANIE												
_	REMARKS												PEPERT 219	•	119 CELLE FOIRING LOOSE	REPEAT 222							No 600D				
TABLE X WIND TUNNEL RUN LOG (CONTINUED)	CONTROLS	08= 26	Se = 30	Sp=30	م چې د عې که	Sx = 30	-											7				***************************************					
) 100 (CC	Ly	75/								<b>&gt;</b>	0													<del></del>	•		<del></del>
TABLE X	Kr	0.	-																								<del></del>
T NNUT O	Int	2.5	-6.5	11.5	2.5	**************************************		<b>→</b>	7.5	7.5	11.5	7.5	57	-2,5	-6.5	-6.5	2,5										<b>→</b>
NIW _	Power	w.m.	TRIM	TRIM													<b>→</b>	MAX	JEC	.X. M.	.v. m.	Iso	TRIM	XUW	7 R.M	XUW	2,3
_	.fun TYPE	£	Я	X	8 4:5	a, 4-15	,γ	¥	Я	Я	ጸ	ጸ	ጸ	ጸ	В	g	8,	В	Я	४	Ŀ	Z.	1	L	В	ઇ	8
	CONFIGURATION	F. 108 WS N/2 TBT L			-			<b>→</b>	FPB WS NP, TBT															>	F 3 NP, TBT		<b>-</b>
	RUN	209	510	211	212	2/3	214	215	216	217	3/2	219	220	221	222	223	724	125	37.6	227	228	229	230	231	23%	233	234

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SER-72011				VE LOOSE							CHECK PITCHING		
	REMORIES		×7 230	NACELLE FAIRING REPEAT 241									
, <b>.</b>	PEI		REPERT	NACEUS 1							57.8716		<del></del>
NNEL RUN LOG (CONTINUED)	CONTROLS										00:00	ره د د د د د د د د د د د د د د د د د د د	م م م م م م م
X LOG (C	In	\ <del></del>	<i>0</i> → ¦	` <b>~</b>	0 —			→ °	·	?			<b></b>
1ABLE INEL RUN	7.	0		<del></del>	l								>
ı, NIOLI. GİNIM	LA	P. 7.		<b></b>	ţ								·
M	POWER	TR1M		>	12. M. T. T. T. M. T. M. M. T. M.	THE	OET	TRIM				<b>→</b>	NAX
	RUN	£gg	18 F	r 8 8	8 % %	e 8 8	£.2	e L	· 8 :	y »	٤ ا	x 8	8.8
	CONFIGURATION	FPBNP. TBT	FPBWSND, TBT	——— <del>&gt;</del>	a 5,00.1/5/1/9, T.2.	י פר ני	29	v 'v				FPBW5ND, 7.2 L	
**	Row	235	238	242		24.3 24.3 24.4	hh Z	747	246	248	250	252	253

STRUT FOURING SER-72011 214-3 27677 27801 KENDRKS NO 6000 No 6000 NO 6000 REPEAT GNTROKS (CONTINUED) ميد عره 05:30 24:30 0 WIND TUNNEL RUN LOG 4 TABLE X 42 Lhz TR/M TR/M W.M. TRIM TOWER W/3/ M21 8.8 TRIM MUNI えなメ NAX メタダ OEL 17.17 4.7 RUN TYPE EBBREER BBBBEERBBBBEER CONFIGURATION Y 72 FPBNW5 72 FPBN, TZ Ka FPBWSND, FPBNP 792 7967 7967 7967 7967 272 273 273 274 250 268 269 270 2772278 255 257 263 276 275 KVX 271 256

SER72011		REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR  ORIGINAL PAGE IS POOR  ORIGINAL PAGE IS POOR  ORIGINAL PAGE IS POOR	Ļ
_	REMARKS	TUFT NEWS, WO TUFT NEWS, WO TUFT NEWS, WO TUFT NOKE, WO TUFT NOKE, WO TUFT NOKE, WO	
TABLE Z TUNNEL RUN LOG (CONTINUED)	CONTROLS	cococo coco caca caca caca caca caca ca	
) ) ) ) )	Iw	$ \tilde{\rho} \longrightarrow 0 \longrightarrow \rho \rightarrow \tilde{\rho} \longrightarrow 0 \longrightarrow \rho \longrightarrow 0 $	
TABLE X	$I_{Ve}$	I ————————————————————————————————————	Ę
	$\mathcal{I}_{f\pm}$	<i>y</i>	
WIND	Power	1- 3.3.5.5.1.1.3. × 5.5.5.1.1.3. ×	
_	RUN TYPE	ROBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	
•	CONFIGURATION	FPBN WG TE FPBN WG TE	
-	Run	2000 000 000 000 000 000 000 000 000 00	

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JAMPIED YAK! CONTROL SER-72011 PEPERT 1300RTED, REISENT CONTROLS WIND TUNNEL RUN LOG (CONTINUED) N TABLE I 7 ナルケ 73.5 N; PWER 2 RU TBT FPBNP, WS TS BT FPBNP, WS TG BT CONFIGURATION 308 309 3/0 3/1 3/1 3/5 3/5 320 322 316 Run 307 3/8 322 323 324 325 33/

SER-72011		78/1E 19 84: 11WE 0878 19308780
	Remarks	REPENT 333 CHECK 3UT PARE V:100 KTS, WD SA: MWE 0 BROA
TABLE TO WIND TUNNEL RUN LOG (CONTINUED)	CONTROLS	
) ) ) ) )	My	$     \begin{array}{ccccccccccccccccccccccccccccccccc$
TABLE X	$I_{V7}$	0
T NNUT O	$I_{hc}$	× × × × × × × × × × × × × × × × × × ×
NIW.	Power	₹ 
_	RUN TYPE	48888888188888888888888888888888888888
_	SONFIGURATION	FPBNP, W5 T2 B7 FPBNP, W5 T3 B7 FPBNP, W5 T3 B7 FPBNP, W5 T8 B7 FPBNP, W5 T8 B7
	Ren No	28 28 28 29 20 20 20 20 20 20 20 20 20 20

	SER-72011	REMARKS	WACELLE SPOILERS INSTALLEY V=100 KTS NO FINCHMA
	TABLE X TUNNEL RUN LOG (CONTINUED)	CONTROLS	2 = 20 0 = 20 0 = 20 0 = 20
	ဝ်သ) ၁၀	In	$\stackrel{?}{\sim} \stackrel{?}{\sim} \stackrel{?}$
<b>)</b>	TABLE X	Ive	0
		The	いいららいににいいいいか
	WIND	FOWER	7.8.m. 7.8.m.
	-	RUN TYPE	R L R R R R R R R R R R R R R R R R R R
	٠	CONFIGURATION	FPBN9, W5 72 FPBN9, W5 72 FPBN5 79
		RUN	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

SER72011	REMARKS				0 A	REPEAT OF 271		,	_	REDENT 393					CHECK RUN 396 PITCH MOMENT				REPEAT OF 173		<i>1</i> 00						<b>*</b>
TABLE Z WIND TUNNEL RUN LOG (CONTINUED)	CONTROLS			Sr = 30	St = 30																	•					
Z 1.00G (CC	The	0-	۲ کر			<b>→</b>	1 -								<b>&gt;</b>	0			~	6-	4	0				<b>&gt;</b>	
TABLE Z	$\mathcal{I}_{ u_{m{c}}}$	-	-				}	<b>h</b> o (	0 .						-											<b>&gt;</b>	1
T. UNNT CI	Ibt	1-		,				• (	2,5	2.5	ر. اد	-2.5	-6.5	0	ンジ	73.5	-1.5	٠,	から			÷	-6.5	いべて	7.5	2.5	
¥.	POWER	1 -									_														-	<b>-</b>	
	RUN TYPE	8 =	× 8	В	χ	ጸ	8 :	1	B	8,	g	ጸ	ሄ	ક	8	૪	8	ጸ	ß	γ	8	×	K	አ	Я	7	
	CONFIGURATION	FP8 WS 72		>	FPBNWSTZ	>	FPBN TZ	-	FPBNTBT						->	FPBNW5TBT				->	FPB W5 TBT					<b>-&gt;</b> -	
•	Run! No	385	386 387	388	685	370	391	392	393	768	375	386	397	368	399	400	104	40%	403	hoh	405	90%	407	80%	404	410	•

Ú	SER-72011		MOUIES	NU STUDIES					NO 6000, BAIANCE FOULING														one 2540	
	-	PEMMKKS	WIND TUNNEL	TUFT FLOW		<del>-</del>	<b>&gt;</b> ·		NO 6000, BM									<b>&gt;</b>	,		1. 4.5	•	NO GOOD, WRONG	`
	TABLE X D TUNNEL RUN LOG (CONTINUED)	CONTROLS	1				•	50=30	•								<del> </del>							· · · · ·
	D) DOT	H	ł	0-		<del>````</del>	٠ ا	<u></u>	1 -		·		· · · · · ·						-					<del>&gt;</del>
ق ا	TABLE NEL RUN	Ire	l	0 -				<del>-&gt;</del>								•								<b>&gt;</b>
	T UNNT CI	The	ţ	ر بر –				<b>→</b>			···· • = =											: -		<b>-&gt;</b> -
	NI.	POWER	١																					<b>→</b>
		RUN	(	x x	8 8	* ,	8.8	8	8	ጸ	1 3	r z	£,	L	gar-10	8	£8:10	ga = 10	0/= 2/2	12:-10	124=-10	Ł.	8	8
- r		CONFIFURA TION	VARIA BLE	FPBN WS TBT	->	FPBW5TBT		->	74															<b></b>
		RUN	11/47	412	414	5/12	7/6	8/4	614	420	124	19 422 423	424	425	426	427	428	429	430	124	432	434	135	436

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SER-72011	REMARKS	ABORTED, FULLINE TO WILL PHOSE IS FOULD STRUT FOULDER TO 437, 438  CEPTER 437, 438  CHAPTER IS FOULDER TO WILL THE
TABLE X	CONTROLS	6 2 6 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
) 100 (CC 7	A	<b>-</b>
TABLE X NEL RUN L	IN	3
T NNOT QNIW	Ist	V
XIX	POWER	1
-	RUN	87788888888888888888888888888888888888
_	CONFIGURA TION	73 By
_	RUN	45.4 45.4

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		REMARKS	REPEAT 462	
	-	PE.	Ret	
	TABLE X WIND TUNNEL RUN LOG (CONTINUED)	CONTROLS	25 25	
	) 100 (CC 17	H	( <del></del>	
ļ	ABLE J	H	0>	
	77 JUNUT O	Hr	v, →	
	WIN	Power		
	-	RUN TYPE	8888	
	-	CONFIGURATION	463 464 465 466 466	
	-	Run	464 465 465	_14

*			4					
LN # C.		0	<b>→</b>	>	>	K	<b>&gt;</b>	492
	SF = 30°	<b>→</b>		}		8		4
FLOW VIE NO BALANCE DATA	SF=30°					x=2,5°		430
FLOW VIZ, NO BALANCE DATA						a=2.5°		489
•		15				ሄ		488
		6-				8		487
REFEAT OF 485		>				<i>3</i> -		486
VA.						<b>3</b> -		485
FLOW VIZ, NO BALANCE DATA					-	a=0,15		#
						8	FPBNPSW7 110 ST	483
						<b>3</b> -		482
STATIC LOADING						0	>	481
SMV						3-		480
FLOW VIE, NO BALANCE DATA						d=15.		419
FLOW VIZ, NO BALANCE DATA						× 10°		2478
REPEAT OF 469		0				У		477
`	Sr = 30°	>				४		476
FLOW VIE, NO BALANCE DATA	SF = 30°					α=2.5°		475
ABORTED, COMPUTER DOWN	SF=30°					8		474
FLOW VIE, NO BALANCE DATA						x=2.5°		473
REPEAT OF 471		15				8		472
RUN TEKNINATED TO CHECK WING		>				४		471
ABORTED, COMPYTER DOWN		14.3				ጸ		470
REPEAT OF 468		>				8		469
PITCHING MOMENT						8		468
NWS		0	0	0	TRIM	8	" FPBNPS W& TO BY	467
KEMARKS	CONTROLS	$I_{w}$	INT	Int	JOWER	KUN 1'YPE	CONFIGURATION	N S
) ) (		3	אוארור ארו. ה		Ξ ·			(
SF R-72011		- N	TABLE VI CHIN 106	TABL	LONIN			

CALIB. + BALANCE DATA DATA SER-72011 CHECK FLOW VIZ, NO BALANCE FLOW VIZ, NO BALANCE CHECK 504 COLD WIRE CALIB.
TUNNEL WARMUP CALIB CALIB. CAL IB. REMARKS SPEED PP CALIB. じつ SHIFT COLD WIRE WIRE SIRE 1×= 5° 00 = N7 5× = 20 REPEAT ABORTED REPEAT TUNNEL PROBE PROBE ZERO COLD COLD °0 " " C. 23 CONTROLS MING TUŅNEL RUN LOG (CONTINUED) X X INT Int POWER THEONIM TRIM TRIM MAX Run x= 15° R=15° 8"0 810 TYPE 8.0 8:0 8,0 8 20 8:0 810 X 0 γ Ø X y R X X ď γ Y X FPB NPS W7 T22 BT WTTO BT FPBNR Wy To Br FPB NPS WT TO BT CONFIGURATION FPB NP W. To Br FPB Nes W7 To FPBNR WITE FPBNPW7T2 B NP7 554 506 507 505 508 509 503 493 200 510 515 50 494 495 4% 499 105 516 477 488 514 この

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SER-72011	REMARKS	PROBE CALIB.	PROBE CALIB.	NO BALANCE DATA				ABORTED				BENT PROBE	PROBE CALIB.	PROBE CALIB.	BAD ANEMOMETER DATA	BAD ANE MOMETER DATA	4=-5 + REPEAT OF 533	TRAVERSE FAILUILE	TRAVERSE REMOVED			LN=-7°, ABORTED, P.M. OFF SCALE	LN=-70 REPEAT OF 539	in=-7°	· · · · · · · · · · · · · · · · · · ·		LN = 0.
TABLE XI NNEL RUN LOG (CONTINUED)	CONTROLS																										
0၁) ၅၀၂	$\mathcal{I}_{w}$	0										<del></del> .											<b>&gt;</b>	15	>	0	<b>→</b>
LE SON	Int	١	١	1	1	ı	ì	,	i	١	1	1	1	ĵ	1	,	١	١	1	ı	1	<del>ن</del>					<del></del>
		1	,	١	j	)	ı	ì	j	,	1	}	J	J	)	ļ	١	١	l	١	(	0					→ >
WIND TU	POWER	WINDMILL		TRIM								<b>-&gt;</b>	<b>'</b> ]	1	١	١	1	1	l	1	l	TRIM					<b>→</b>
		Ø=0	0 = 8	<b>8</b> ≠ <b>0</b>	8.0	g	γ	૪	ž	B	ጻ	8	૪	8	ે	8	8	В	8	γ	£	γ	Y	γ	४	8	K
	CONFIGURATION RUN	FPB NP7 W7 T.11							<b>&gt;</b>	正	FPB NP W1	FP	FPB						>	FPBW1 Tz		FPB NPS W+ Tio BT		<b>&gt;</b>	FPB NPS W. Tzz BT		<b>&gt;</b>
·	Run	519	520	521	522	523	524	575	526	527	875	829	530	66 68	532	533	534	535	536	537	538	539	540	541	545	543	544

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SER-72011	S REMNIKS	·	· / - 2 ~ 7	, L-=N7		REPEAT OF 500	REPEAT OF 193 (BASELINE)				AROKTED	DEPEAT OF 557			Xn=5.	SMV	スページ。	KN=-5, ABORTED	REPEAT OF 564, ABORTED	REPEAT OF 564	X = -5.	Δ	REPEAT OF 568	
TABLE XT TUNNEL RUN LOG (CONTINUED)	CONTROLS	o v		· O -	> 1/v	0.		<u> </u>	41 _				. 6	0						•				
RUN LOG (	Ivt Iw	0 -	) <del>-&gt;</del>							<b>&gt;</b> (	<u> </u>		6-1											->-
TAE TUNNEL	POWER IHT	TRIM O																						<b>→</b>
QN/M	RUN PO	83		8.	<u> </u>						r E S	8 61.5	- x	8	К	18.45°	Q, 6=5"	8, 4.5	8,450	a, 4=5°	8	8	8	8
	CONFIGURATION	FPBNP8 WT 722 BT	FPB NP8 W. T.O BT		>	FPBNPW7 Tio Br	FPB NPS W7 To BT	FPBNPS Wy E3 77	} <b>-</b>	TFN OPS W7 124 67			->	FPENPW, TABT	<del></del>	• • • • • • • • • • • • • • • • • • • •					<del>-&gt;-</del>	FPBNPS WTE BT	<b>→</b>	FPBNPS W. Tas BT
	Run	545	547	548	550	551	552	553	557	555	955 67	750	559	260	195	295	563	564	595	266	567	825	695	570

SER-72011	REMARKS									COMPLETION OF 580					REPEAT OF 483,552		SMOKE			ARORTED			1;
(CONTINUED)	CONTROLS																					Se=-20°	
	1 7	0—								·												>	•
LE KI	$I_{VT}$	0-																<b></b>				>	1
TABLE VI TUNNEL RUN LOG	I#T	0-					•						· · · · · · · · · · · · · · · · · · ·	3	<b>&gt;</b>	0/0/	000	10/	120	2000	Ô	<b>&gt;</b>	
ND TU,	C POWER	TRIM														· · · · ·						<b>-</b>	
<b>≥</b> .	KIN	8 8	γ	8	8.	४ ४	8	8 7	۶ ۶	x x	8	8	8	γ	8	8	४४	8	β.	€ 8	£.	£	
-	CONFIGURATION	FPB Nrs W7 T26 BT FPB Nrs W7 T19 BT	77	PBNPS W7 Ta8	PB NPS	P B NPS W7 T30 BT	P B NPS	OB NPS	78 711 7W SWN 8 7	->	FPBNPS WT TIB BT	728	√7	F.	, 0,	FPB. UPS W7 Tag BT	F PR NPS WY TIG BT	——————————————————————————————————————				<b>→</b>	•
\ V					575 71/7	577 F		$\pi$		285 6	583	584 F	585 F	386 F			587 590 E		592	573	5%5	1965	

一十二年,其以韓國等國人養命、大學不以以外以外,如此其是華朝於一世帝以以後的人以以後以上

اعر	),	SER7201)	REMARKS	ABORTED	REPEAT OF 597		·	SMV	ABORTED	REPEAT OF 602				REPEAT OF 503							WRONG TRIM POWER							SPEED VARIATION	REPEAT OF 614 REPEATOF 621
		(CONȚINUED)	CONTROLS	SR=-10"	SR=-10.	SR = 10°	8R=20.						<b></b>									SR=-10.	SR=-20°	SR=10°	SR= 20°		SR = -30°		
		(CON	L.	°	<del></del>	<del></del>						<del></del>				<del></del>							-						<b>→</b>
V	]-	N LOG	Ivt	°				<u> </u>				>	)	١	١	١	ſ	ı	i	°0-									<b>&gt;</b>
		TABLE NEL RU	Int	°								>	1	1	1	1	١	1	1	ö.				-					<b>&gt;</b>
		TABLE XI WIND TUNNEL RUN LOG	POWER	TRIM								<b>→</b>	WINDMILL	TRIM	23000	MINDMILL	TRIM	23000	OEI	TRIM							>	WINDMILL	TRIM WINDWILL
		**	RUN TYPE	3	£	£	<b>3</b> -	4 x=10°	4, x=10°	4, d=10°	4 d=-10	Э	8	४	8	<del>)</del> -	3-	÷	z	F	4x=10	<b>3</b> -	<b>3</b> -	3-	<b>&gt;</b> -	4 x=-10	-E	\$ " 00°	4 x=10 TRIM
ŧ	1	-	CONFIGURATION	FPBNPSW, Tig Br	•							FPBNPS W7 T35 BT	FPBNPS W, T2						>	FPBNPS W7 T36BT									<b>→</b>
			No	597	598	599	809	109	602	603	604	605	909		809 8	609	019	119	612	6/3	6/4	615	919	617	8/9	619	620	129	622

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SER72011	REMARKS	150	LEK 150, SPEED VARIATION		TRIM @ & "O"		8=40 PSF	g = 40 PSF	g = 40 PSF	9 = 40 PSF	1 1 40 PSF	_	9=40 BF	g = 40 PSF	1 = 40 PST	\$ = 40 BF	2,120 PSF CMULE	TANK STANK	1 = 40 tsr	PST 1	REPEAT OF 642,9=40 BF		g=40 PSF	10 = 40 PSF	g = 40 PSF	•
TINUED)	CONTROLS					SR=-10°	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					SR=-20°	SR=-10	SR=10°	SR= 20°			0 4 6	SF = 50	SF=30°	SF=30.	SF = 30°	SF=30, SR=10	SF=30, SR=20"	SF=30, SR=25	
VI LOG (CONTINUED)	*	° -			<del></del>												>	<b>-</b> j	€.						<b>-</b>	
LE LO	Ivr	°-																							>	
TABLE NINEL RUN	I HT	° -																							->-	
WIND TUN	Power	WINDMILL	23000				>	MINDMILL	23000						<del>-&gt;</del>	WINDMILL	23000 WINDMILL	7 7000	73000		>	TRIM	OEI		<b>-&gt;</b>	
*	Run TYPE	200	£ ; 5	44=10.	¢α=10°	£	\$ E	5 X	8	E	4.01=10	£,	£	F	F	£.	£.	04=6,10	૪ .	£	Х	४	£	<b>F</b>	<i>3</i> -	
•	CONFIGURATION	FPBNPS W7 T36 BT	> 1 1 1 1 0 0 0 1 1 1 0 0 0 1 1 1 1 1 1	N 187 0 -			> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FFBN73W7 36 51								FPBNPS W7 T36	F :	FPBNPS W7 136 ST							->	(
	Run	623	624		627	929	29	6 50	732	2 7 7	634		636	637	638	639	640	641	642	643	644	645	646	647	648	

	SER-72011	REMARKS			BALANCE	FLOW VIZ, NO BALANCE DATA	SPOILER ON STABILIZER		REPEAT OF 654, CHECK BALANCE	REPEAT OF 654 555	REPEAT OF 606		SMV	BALANCE REPEATABILITY CHEC	REPEAT OF 612		REPEAT OF 503,607										REPEAT OF 483,552,587	
	WIND TUNNEL RUN LOG (CONTINUED)	CONTROLS	SF=30°																					SF =30°	SF=30°	SF=15°		
	CON.	I w	15°	°O·													<b>→</b>	°	<del>&gt;</del>	7.5°	>	150			>	°	<b>→</b>	1
- <u>}</u> -	BLE Z	Int	0				<b>&gt;</b>	١	١	1	ı	١	1	١	1	1	1	1	1	1	١	1	l	1	1	1	ô	1
	NEL R	IHT	0				>	1	١	1	١	1	١	١	١	ı	1	١	ı	1	١	1	١	1	1	١	°	1
	ND TUN	POWER	TRIM							<b>→</b>	MINDMILL	OEI			<b>→</b>	TRIM						•			-,			<del>&gt;</del>
	×	RUN TYPE	£	Я	8	8	γ	Fa=10	4,4=10.	4. x = 10.	8	४	£	£	<del>5</del>	4x=-10.	΄, χ	£	४	r	<i>3</i> -	F	8	В	<del>}</del>	か	8	8
. ] <u>-</u>		CONFIGURATION	FPBNPS W1 T37 BT	>	FPBNPS W7T36 BT	FPBNPSW7T29BT	FPBNPS W- T28 BT	FPBNPS W7 T2																			FPBNPS W7 To Br	FPBNPS TZ
		Run	643	650	159	652	653	654	655	959	657	859	629	099	199	799	663	664	665	999	199	899	699	670	119	672	673	674

SER-72011 REMARKS	\$ = 40 PSF, ZERO SHIFT 9 = 40 PSF, REPEAT OF 677 9 = 40 PSF 9 = 40 PSF	AS OBJUST WITH THE BOOK
WIND TUNNEL RUN LOG (CONTINUED)    PAWER   In   In   CANTROLS	·	
SG (CON	10-	<del></del>
BLE XI RUN LO Zvr	10-	
IN NEL Zy	10	N N 0
IND TU	• • • • • • • • • • • • • • • • • • •	00 > N > 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Kun Type	ARREE E E RRRREE	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
CONFIGURATION	FPBNPS T2 FPBNPS W7 T38 BT FPBNPS W7 T41 BT FPBNPS W7 T41 BT FPBNPS W7 T42 BT FPBNPS W7 T42 BT FPBNPS W7 T40 BT	FPB NPS W1 T43 BT FPB T43 BT FPB T38 BT FPB T44 BT
RUN	15 6775 6775 6775 688 688 688 688 688 688 688 688 688 68	688 688 688 688 688 688 688 688 688 688

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SER-72011 REMARKS	SPLIT FLAP ELEVATOR
(CONTINUED)  Lowtrold	\$R=10° \$R=20° \$R=20° \$R=20° \$E=25° \$E=-21° \$A=-10°
•	111111110
TUNNEL RUN LOG	440 Nino
TAE UNEL F	0 - 2 0 0 0 0 - 1 1 1 1 0 - > 1
WIND TUR	11111111111 = >
Kun Type	S S S E S E S E E S E E S S S S S E
CONFIGURATION	FPBT48T FPBT48BT FT38BT FPBT2 FPBNR1W7T2 FPBNR2W7T43BT FPBNR2W7T43BT FPBNR2W7T43BT FPBNR2W7T43BT FPBNR2W7T43BT FPBNR2W7T43BT
Rus	55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

SER-720	REMARKS																										REPEAT OF 671
WIND TUNNEL RUN LOG (CONTINUED)	CONTROLS	1	.0/ = VS	SA = 20°	6A= 20°	SA = 20°	SA = 20°	84=-100	SA=-10°	SA = -10°	SF=10°	SF=20°	Sr. 40°	SF=30°	SF=30.	SF=30"	SF=30°	SF=30°	SF=30°	SF=30°	5r = 30° 54 = -10°	5F = 30 0 5A = -100	SA = 10°	SF = 30°	5==30°	64 30°	\$F=30°
) (C)	$I_{w}$	0	<del></del>		<u>-</u>		<del></del>	· · · · · · · · · · · · · · · · · · ·						>	15.		******										<b>→</b>
SCE SCN CO	IVT	1	١	1	1	١	ı	١	1	1	١	1	١	1	١	١	ı	1	١	١	١	1	1	1	ļ	1	١
AAT ANEL	Int	١	ı	ł	1	1	1	١	1	١	1	ı	1	1	١	1	l	1	١	1	1	1	1	1	1	ı	1
JUT TUI	POWER	TRIM												>	MINDMILL	<b>→</b>	23000		OEI	<b>→</b>	TRIM						->
3	RUN TYPE	8	8	४	Q, 4=5°	<b>3</b> -	4,4=100	4 x=10°	, ,	Q, 4=5°	8	8	8	૪		£	£	ሄ	8	$\epsilon$	<b>3</b>	X	8	3	E	8	<b>3-</b>
	CONFIGURATION	FPBNR W7T2																,									
	Ran	727	728	729	730	731	732	733	734	735	736		382. 4	739	740	741	742	743	744	745	746	747	748	749	750	751	752

ان <sup>-</sup> ن	SER-72011	REMARKS									REPEAT OF 503,607,463		RJ O	EPR	JODU AMI	ICIBI	LITY GE	OF P	TH	E					FLOW VIZ, NO BALANCE DATA		
	VI LOG (CONTINUED)	CONTROLS	SA = 20°	SA = 20°	SA = 10 }	$\simeq$	SA=-10°	2				-						0	SR = 10	2 K 11 40							
	(CO)	Iw	°5/							>	°°	>	1	١	1 1	1	١	1	1	١ .	l 	1 6	o-			}	<b>&gt;</b>
	SLE ZI	IVT	١	1	١	1	١	١	١	١	1	١	° -														<b>&gt;</b>
	TABLE TUNNEL RUN	Int		1	1	١	\	1	١	١	١	١	° -			າ,	-10-	12,	6								>
	IND TU	POWER	TRIM				}	<b>&gt;</b>	WINDMILL	23000	TRIM	<b>&gt;</b>	1	1	١	۱ ،	١	1	1	١	(	1	TRIM				<b>&gt;</b>
	3	Run TYPE	E	ጸ	γ	<del>}</del>	£	ሄ	γ	ሄ	8	x, 4.5°	γ	F	4x=100	8 2 = -8 8 = -8	В	8	3- E	<b>→</b>	<b>.</b>	8	8	8	88	<u>ر</u>	8
1		CONFIGURATION	FPBNPS W7 T2									>	FPB T47 BT								F T47 BT		FPB NPSW7 T46				FPBNPS W7749 BT
		Run	753	754	755	756	757	758	759	760	761	762	763	764	765	766	768	692	277	771	772	773	774	775	776	777	778

11064-035	REMARKS										•									ENCODER PROBLEM	ENCODER PROBLEM	REPEAT OF 798,799					
TABLE XI (CONTINUED)	CONTROLS																										
V()	Z Z	<b>°</b> -													>	°6-						>	7.5°			>	
BLE N	Ivr	ا ،			<del></del>																					<u>~</u>	
TAL	I,T	.0	-102	, , , ,	.6	-10°	3	-5.	°O																	>	
	bi	TRIM							>	WINDMILL	23000	DEI	WINDMILL	23000	DEI	MINDMILL	>	TRIM	23000	OEI			>	TRIM	23000	77IWANIM	
>	RUN TYPE	3	γ <u>`</u>	 8 8	8	8	8	8	8	8	8	8	<del>}</del>	<b>→</b>	E	F	8	8	8	Я	8	8	8	8	8	8	
	CONFIGURATION	FPBNPSW7 T49 BT	FF BNPS W7 137 BF		<del>-&gt;</del>	FPBNPS W. TSO BT			>	F PBNPS W7 T49 BT		-														<b>&gt;</b>	
	Run	779	180	782	783	784	785	781	787	788	684	190	161	792	793	794	735	762	797	798	199	800	108	802	803	804	

	SER-72011																											
		REMARKS																										
	LOG (CONTINUED)	CONTROLS					Sr = 30°	Se=30°	δF > 30°	SF = 30.	SF=30°	SF=30°	SF=30°	SF=30°											SF = 3C			
	1 30 CO	H	15.			-			<u> </u>			<del>-</del>			<del>-, -,</del> ,		<del>-,</del>	<b>→</b>	6 1	<del></del>			>	,5	<b>&gt;</b>	7.50	<u>-</u>	<del>&gt;</del>
i		, ~	0-																									<b>&gt;</b>
	TABLE TUNNEL RUN	IHT	0							>	01-	-5.	2°	,07	,0/	20	-5°	-10.	-10.	-5,	0	'n	90/	٥.		>	0/	2
	WIND TU	W)	WINDMILL	TRIM	23000	T30	DEI	TRIM	23000	WINDMILL	TRIM																	<b>→</b>
	>	Run TYPE	B	8	γ	8	8	8	४	ጸ	χ	g	8	8	8	8	8	8	8	8	8	8	B	8	8	Х	8	8
	•	CONFIGURATION	FPBNPSW1749BT							<del></del>	FPB NPS W7 T37 BT																	
		Rus	805	908	807	808	809	810	38	812	8/3	814		7 8/8	8/7	818	819	820	821	822	823	824	825	826	827	878	829	830

SER-72011	PROBLEM: 840 PROBLEM = 842
REMARKS	ENCODER PROBLI REPEAT OF 840 ENCODER PROBLE, REPEAT OF 842
OG (CONTINUED)  In Controls	6F = 30° 6F = 30° 6F = 30° 6F = 30°
ZZ (CO OS (CO Zw	v. >v
<b></b>	
TUNNEL RUN R   Int   Int	00000000000000000000000000000000000000
W IN ON THE REAL PROPERTY.	TRIM
Kun Type	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
CONFIGURATION	831 FPBNPS W7 T37 BT 832
Run	88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

SER-72011	60 7.
X	
REMARKS	Q Tr
RET	RE PEAT
TUNNEL RUN LOG (CONTINUED)  FR Int IVT IN CONTROLS	کہ = ع = ع 0 °
ITNC 6	
S (CC	0 4 > 0 6 > 0 6 0 > 4 > 6 6 0 0 > 4 > 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
BLE KO	
NNEL F	
WIND TU	<u>x</u>
RUN W TYPE	AAAAAA # # AAAA # AAAAAA # AAAAAAAAAAA
5	· · · · · · · · · · · · · · · · · · ·
1710	
suk	$\begin{vmatrix} x & y & y \\ y & 3 & y \\ y $
CONFIGURATION	FPBNPS W, TS3 BT  FPBNPS W, TS4 BT  FPBNPS W, TS4 BT  FPBNPS W, TS4 BT
Run	8859 850 850 850 850 850 850 850 850 850 850

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SER-72011	REMARKS																									
VI LOG (CONTINUED)	CONTROLS				The second of the second											SF= 30°	6F = 30°	SF = 30°				SF=30°	SF=30°	SF=30°	SF = 30°	•
(CO)	Iw	°-						>	-6-	<del>-</del>	7.5°					->-	, v	7.50	61	°	15.	>	7.50		>	
	L	° —																							<b>&gt;</b>	
TABLE TUNNEL RUN	Int	°-				- °c	00/	-53-	-10	o,	<b>-</b>	0	150	°	~			>	4	,	2.5°	°	M.	<b>&gt;</b>	ိ	•
WIND T		TRIM _																							<b>&gt;</b>	
3	Run Type	4×=10.	Ga=-10.	\$ & & & & & & & & & & & & & & & & & & &	\$ 6 6	y	8	8	8	8	8	8	y	Qa=10°	8,4°S	8	γ	8	<b>y</b>	<b>8</b>	४	४	8	8	8	
-	CONFIGURATION	FPBNPSW-TS-BT		<b>&gt;</b>	TTBNPSW1 ISI GT	FPBNRW TSGBT												FPBNPS W7 TS8 BT						FP3NPSW7 Teg BT	>	
	Run	883	885	886	00 x	883	830	168	837	893	834	895	363	897	868	833	900	106	706	703	904	905	906	907	308	

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. J	SER-72011	REMARKS	REPEAT OF 503,607,663,761
	TABLE VI TUNNEL RUN LOS (CONTINUED)	CONTROLS	SF=30° SF=30° SF=30° SF=30° SF=30° SF=30° SF=30° SF=30° SF=30° SF=30°
	CON,	3 H	$\frac{1}{2} = \frac{1}{2} = \frac{1}$
	BLE K	Iv	O I Ô
	NNEL F	뉴	$\frac{1}{4} \mid 0 \rightarrow \dot{u} \downarrow 0 \qquad \qquad \qquad \stackrel{u}{\rightarrow} \dot{u} \downarrow 0 \qquad
	WIND TU	POWER	Windmill 23000 0ET TRIM
		Rus TYPE	88888888888888888888888888888888888888
•		CONFIGURATION	FPBNPS W7 159 BT FPBNPS W7 759BT FPBNPS W7 760 BT
		Run	920 920 920 920 920 920 920 920 930 930 930 930 930 930 930 930 930 93

SER-72011	REMARKS					,	GROUNDED PITCH STRUT	REPENT OF 941						RE	PR NGI	ODU NAI	JCH L P	<b>BILJ</b> AGI	TY E IS	OF P	TH	IE					
(CONTINUED)	CONTROLS						SF=30°	SF= 30°	SF= 30°	SF = 30°	SF=30°	SF= 30°	SF=30°	SF = 30°	5F = 30 8	6F=30° 6A=-10°		SA=10°	\$ A = - 10°	6A=-10°	6A= 20°	SF=30°	SF=30°	SF = 30°			
	Iw	/5°								· · · · ·							>	°O·			<b>&gt;</b>	15°				<del></del>	
SUN LOG	IVT	° –																_								<b>&gt;</b>	,
TAE	LHT	0 10	°													-						>	'n	-5°	<b>&gt;</b>	ô	•
TABLE WIND TUNNEL RUN	POWER	TRIM	WINDMILL	23000	DEI	TRIM				>	23000	WINDMILL	DEI	TRIM								-				>	
````	RUN	8 8	X	8	8	F	F	£	4,d=10°	4x=-10°	્૪	8	У	૪	E	8	૪	8	४	Э-	<b>3</b> -	ኝ	γ	8	४	γ	
•	CONFIGURATION	FPBNPSW776187	FPBNPSW7T60BT																		>	FPBNRW7T4187				>	(
	Run	935	937	938	939	940	941	942	943	944	945	946	947	948	949	950	156	952	953	954	955	956	957	958	959	960	-

SER 72011	REMARKS			PSF 17 OF 923								
_				EFFEAT O								
(CONTINUED)	CONTROLS		SF = 30° SF = 15°	5 × 20°		SF=30°	SF=30° SF=30°	SF=10.		\$ 0 0	SF=10°	0 = 10 0 = 10
	, 7	3,5					->	.¢°0			<b>&gt;</b> ô	} >
BLE VI		ō										
TABLE TUNNEL RUN	Int	° ~ °	~ o ~		→ °0	, N <del>&gt;</del>	200	40	00/-	~ N° C	- N O	<b>→</b> °0
WIND TU	POWER	F Z	>	23000 TRIM								
	RUN	888	888	γγ <b>≥</b>	<b>.</b> 8 8	8 8	४४	४४	887	8 8 8	88,	8 8
	CONFIGURATION	FPBNPS W7 74; 87	FPBNPSW7 T60 BT		FPBNPS W7 TG1 BT		-	FPBNPSW7 TGO Br	FPBNP5W7T61 BT			
	Run	961 962 963	965	7%7	976	972 973	974 975	976	976	780 981 982	983	986

SER-72011	REMARKS	REPEAT OF 503,607,663,761,910	ABORTED FOR THE	
TT (CON TINUED)	CONTROLS	5F=10° 5F=30° 5F=30° 5F=30° 5F=10° 5F=10° 5F=10° 5F=10° 5F=10° 5F=10° 5F=10°		
NOO)	Iw	\$		<b>&gt;</b>
		0 > 111110		<b>&gt;</b>
TAE NNEL R	IHT	か~から~から~からか~からか~しい」」である。	2 °n -=	<b>&gt;</b>
TABLE WIND TUNNEL RUN	POWER	181M WINDMILL 23000 TRIM		
>	RUN TYPE	K X X X X X X X X X X X X X X X X X X X	88	8
	CONFIGURATION	FPBNPS W7 T61 BT		
	No	988 988 988 988 988 988 988 988 988 988	1101	1012

一个一种的时候,我们就是不是一种的时候,我们就是一种的时候,我们就是一种的时候,我们也不是一个一个一种的时候,我们也不是一种的时候,我们也是一种的时候,我们也会

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	SER-72011	REMARKS						1	REPEAT OF 91S																		
	TABLE XII TUNNEL RUN LOG (CONTINUED)	CONTROLS										0 (11)	Se = -20°	SR=10°	SR= 20°			<del></del>		······································			,	SF=30°	8F=30°		
	CON Se (CON	$\mathcal{I}_{\omega}$	6-		<del></del>	·····			<b>&gt;</b> (	O —														>	7.5°		-
Γ	BLE Z	IVT	· 0-												>	2.5°	> .	4 vi –	<b>&gt;</b> °	<b>)</b> –					>	1	1
	TA JNNEL	Int	0.																					>-	°0/	1	ı
	WIND T	111	WINDMILL	TRIM	23000	OEI	TRIM									>	DET.	>	TRIM	VARIABLE	WINDMILL	23000	OEI	TRIM	<b>&gt;</b>	WINDMILL	23005
		RUN TYPE	8	γ	8	b	£	4x=10°	\$ <del>*</del> 2°	14×10	6/1-x/	<b>,</b>	£ +	3	£	<b>.</b>	÷:	<b>}</b> - ₹	2 13 18	°0 .	४	8	ઠ	४	४	४	8
		CONFIGURATION	N7 60 BT																				•		FPBNPS Wy Te, BT	W-T2	
		CONFIG	FPBNPS W7 60 BT	-				_																	FPBNPS	FPBNR W1 T2	
		Xux No	1013	10/4	5/0/	9/0/	1017	8/0/	6/0/	070/	1041	7770/	707 85	1025	1026	1027	1028	1027	1030	1051	8	1033	1034	1035	1036	1037	1038

SER-72011	REMARKS							MODEL VIBRATION, 02'S ONLY	MODEL VIBRATION, ABORTED	REPEAT OF 1045					r C	REP	TAN	VYT	PA.	LIT Gæ	Y (	OF PO	THI OR	2				
CONTINUED)	CONTROLS							SF=30	SF=30°	8F=30°	SF=30°	SF=30°	SF=30°	SF = 30°	8F=30°	8F=30°	SF=30°	SF=30°	S F= 30°	SF = 30°	SF = 30°	SF = 30°	8F=30°	6F=30°	SF=30°			
(CO)	Im	.5.2	->	-6-	->	્ટ્રે					>	7.5°			<b>&gt;</b>	/5.		<b>&gt;</b>	7.50						>	١	1	
BLE Z	INT	١	١	1	١	١	1	1	ı	١	ı	1	١	°O-													<del>&gt;</del>	
UNNEL	Int	١		1	١	J	1	ì	•	1	1	١	1	Ö					<b>&gt;</b>	2°	00/	.5°	°				<b>&gt;</b>	
WIND TUNNEL RUN	POWER	23000	WINDMILL	<del></del>	23000	WINDMILL	23000	TRIM														- Lenan-	,		,		<b>~</b>	
	Kur 1786	F	£	<b>3</b> -	F	<del>Э</del> -	÷	8	8	8	<del>5</del>	£.	8	8	3-	४	÷	8	४	У	8	g	40-10.	4x=-10°	x,4.5°	8,	F	
	RUN CONFIGURATION	FPBNPSW7 T2					>	FPBNps W772L						FPBNPS W7 T6087L			>	FPBNpsW1T61BTL			٠				>-	FPBNPS T60 BT	->-	,
	Rus	1039	1040	1401	1042	1043	1044	1045	1046	1047	1048	1049	1050	150/88	1052	1053	1054	1055	1056	1057	1058	1059	0901	1901	7901	1063	1064	-

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SER-72011	REMARKS	REPEAT OF 946	8403 T34 8NISU T33 61 =	STMENT ONLY					REPEAT OF 1071							SPEED VARIATION						SPEED VARIATION			REPEAT OF 1085	
LOG (CONTINUED)	CONTROLS	8=30°	OF " 50	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	, ,																					
	Iw	.51	0'/	<b>)</b> ->	ő	->-	1	١	1	١	1	١	١	ı	,	١	1	1	1	ł	1	١	J	١	١	1
BLE KI	INT	°-																								>
JANNEL	Int	° 0	->	- ທີ	ò												>	°C.	<u>-</u>	1 5	°					<b>&gt;</b>
TABLE ;	POWER	WINDMILL		->	- 1	١	WINDMILL		>	1	1	l	١	)	ı	1	١	1	i	١	1	1	١	١	ı	١
	Run Trpe	8 7	8 8	<b>8</b>	४	£	ሸ	F	ఠ	X	F	γ	£	4,2=10°	4, d=-10°	000 4 11 00 4 K	x,4.5°	8	४	8	४	5% "0° "2"	Æ	4x=100	8	4x=-10
-	CONFIGURATION	FPB NPS W7 To BT		->	FPBW, To BT	_	FPBNPS TOBT	~	-	FPBT608T	->	FPB Tso BT									T62B7					<b>&gt;</b>
-	Run	5701	1067	890/	6901	0701	1/01	1072	/073	1074	1075	9201	1012	1078	1079	0801	1801	1087	1083	1084	1085	7801	1.801	1088	6801	1090

SER-72011	REMARKS																									
VI LOG (CONTINUED)	CONTROLS		Sp=10°	Sr=15°	δR=20°	SR=25°	8R=30°	SR=-30°	8 R=-25°	SR=-200	6R=-15°	SR=-100	858 = 55°	658 = 35°	85B=15°	858=15°	65B=15°	6 sB = 15°	558=35°	658=55°						100 min of
CON CON	$\mathcal{I}_{w}$	1		1	ı	١	1	١	1	١	١	١	1	١	1	١	ı	1	1	ı	ı	1	١	١	١	1
		° -																								>
TABLE UNNEL RUN	IHT	° –			-			-					·													<b>-&gt;</b>
JIND T	POWER	1	1 1	1	١	(	1	1	1	١	١	ı	١	١	ł	1	ſ	١	1	ı	١	1	1	1	1	1
\$	RUN	α, Ψ=S.	×, 7, 5	· 3-	æ	£	F	÷	$\epsilon$	3	<i>÷</i>	÷	÷	<i>?</i>	£	8	8	÷	<del></del>	<b>→</b>	ŧ	\$ " <del>c</del>	8 € 10.	8	4180	¢=20°
	CONFIGURATION	T62BT													-	<b>&gt;</b>	T63B7									<b>→</b>
	RUN	1601	1092	1094	1095	9601	1697	1038	6601	1100	1011	8 1102	1103	1104	1105	9011	1107	80//	1109	011	=	1112	1113	4=	1115	1116

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}

	SER-72011	REMARKS	SM S
	כרחטבם)	CONTROLS	\$R = 10° \$R = 20° \$R = 25° \$R = -30° \$R = -10° \$R = -10°
	TABLE XI TUNNEL RUN LOG (CONCLUDED)	Iw	
<b>-</b> )	ABLE X	INT	0
	T/ JUNNEL	Int	°
	T ONIW	POWER	
		RUN TYPE	EXXEÉEEEEEEE
<u> </u>	-		T63BT  T63BT  C5 BT
		X 50	1

TABLE VII

### RUN NUMBER / FIGURE NUMBER INDEX

		**************************************				
	Run	Figures	Run	Figures	Run	Figure
	5	16	527	154	661	51,82
			528	155		
	19	16	534	153	663	13, 37, 60
	20	16	232	153,156	664	38,50
i			236	153	665	37,45,76,77,78
	33	17	537	31,153	666	37,47,76,77,80
			538	32	667	38, 52
	32	18	549	100	668	38,53,72
			551	100	669	37,48,71,76,77,81
i	38	17	552	12	67.	37,49,66,73,76,77
	39	18	587	12	671	54, 66, 74
	40	17	ĺ		672	60.
	41	18	606	46	673	12
	42	16	607	13, 21,37,46,60,66,67	674	31
			608	46	675	32
	45	16	609	51	,	į
			610	32,38,51,66,69,82	686	83
ļ	135	30	611	Si		
	136	30	612	51,82	696	22,23
	137	30				
			621	16	701	22
	483	12,36,100	622	16	702	22
!		,	623	16	707	23
	487	36			704	23
	488	36	633	32	716	18,22,32
	491	36			717	17,21,31
			639	35		, ,
	498	36	640	35	724	83
	500	100			725	83
	203	13	654	70	726	66,27
	506	100	655	70	727	67
	509	100	656	70	728	66,67
			657	46	729	67
	]		653	46	730	(8

Run	<u>Figures</u>	Bun	Figures	<u>Rxz</u>	Figures
731	66,69	772	18	940	41
732	70	773	17		
733	70			942	41,64,65,66
734	66,69	791	34	943	64,65
735	68			944	64,66
736	50,76,77,60	793	82	945	59
737	50 ,60			946	59
738	50,60	910	13, 76, 77	947	59
739	50,60		,	948	66
740	49	912	33, 39, 44, 56, 66, 79	949	6 <b>6</b>
741	54		•	950	6.6
742	54			951	58,39,81
743	49	915	40	452	66
744	49	916	40,44	953	66
745	54	917	40	954	66
746	74	918	40	955	66
747	66,73	919	40	956	77
748	66 73	920	40	957	フコ
749	66,74			95°	77
750	74	922	59, 63,66 39, 57,62,80	959	77
751	73	923	39, 57,62,80	960	77 ,81
752	54,6674	924	57	961	77
753	72	925	57	962	77
754	71	926	57	963	77, 80
755	71			964	77
756	72	929	76	965	62,63
757	72	930	76	966	62
758	ור	931	76		
759	48	930	76	968	39,62
76	48	933	76	769	41
	13	934	76	970	76, 80
762	68	935	76,81	971	76
763	17	936	76	972	76
764	18	937	58	973	76
		938	58	974	76
1		937	58	975	74
			91		

Run	Figures	Run	Figure:	Run	Figures
978	76	1014	39, 55, 78	1050	93,99
979	76	1015	55	1051	98,95
980	76,79	1016	55	1052	97,96
981	76	1017	41,42	1053	75
982	76	1018	42	1054	96
983	76	1019	40	1055	95
984	76	1020	43	1056	95,9 <b>8,99</b>
985	76	1021	43	1057	99
986	76	1022	34,41,43,66,92,84	1058	99
987	76	1023	84	1059	99
988	76	1024	84	1060	97
989	76,78	1025	84	1061	97
990	76	1026	84	1062	98
991	76	/027	82	/063	3.3
992	45	/028	82	1064	34
993	45	1029	82	1065	59
994	76,77	1030	e 2		
995	13	1031	و 3	1069	3 3
996	76,77,99	/032	33,56	/070	34
997	77	/033	56	1071	33
998	77	1034	56	1072	3 <i>4</i>
999	77	1035	63	1073	33
/000	77	1036	76	1074	33
/00/	77,79	1037	47	1075	34
1002	<b>7</b> 7	1038	47	1076	21
/003	77	1039	52	/077	19, 20, 22, 23
1004	77	1040	52	1078	19,20
1005	77	1041	50	1079	19,20
1006	77	1042	50	/0 <b>3</b> 0	16
1007	77	1043	53		
008	77	1044	23	/०८२	21
1009	77	1045	93	/083	21
1010	77,78			/084	21
		1047	93	1085	24,28,91
1015	77	1048	94	/086	16
1013	55	1049	94	1087	25,26,29,92

## TABLE VI (CONT)

SER-72011

, Rusi	Eignese 25	Run	Figures	Run	Figures	
1088	2 5	1103	29	1118	87	
1089	24,28	1104	29	1119	87	
1090	25	1105	29	1120	87	
1091	24	1106	28	/12/	87	
1092	24	1107	89	1/22	87	
1093	26	1,08	90	1/23	೪ಌ	
1094	26	1/34	90	1/24	87	
1095	26	1110	90	1125	8 <b>~</b>	
1096	26	1111	96,87,90,92	<b>!</b>		
1097	26	///2	86	1127	92	
/598	26	1113	86	//29	91	
1099	26	1114	35,89,91	1129	91	
1100	2 6	1115	85	1/30	92	
1101	26	1115	85			
1102	2	1117	87			

# STATIC DATA ACCURACY

	<pre>rm(Q=55 psf) Yaw Runs e I 0.5 ft² 0.2 ft² 16.2 ft³ 29.5 ft³ 3.6 ft³ 3.6 ft³</pre>	Naw Runs  0.4 ft2  0.2 ft2  0.3 ft2  27.8 ft3  31.1 ft3  5.5 ft3
	Perametric Form (Q=55 psf)  Pitch Runs Yaw Runs Phase I  0.4 ft² 0.5 ft² 0.1 ft² 0.2 ft² 0.3 ft² 0.2 ft² 5.8 ft³ 16.2 ft³ 20.0 ft³ 29.5 ft³ 3.4 ft³ 3.6 ft³	Pitch Engs 0.5 ft2 0.2 ft2 0.6 ft2 25.9 ft3 20.5 ft3
ressure Air	Funs II 0.5 0.5 0.5 7.6	With High Pressure Air       tch Runs     Yaw Runs       7     0.8     0.6     0.7       4     0.3     0.3     0.5       9     0.2     0.5     0.5       6     3.7     7.1     5.8       2     7.4     8.0     8.4       1     1.3     1.4     1.4
Without High Pressure Air	1bs or ft-1bs Pitch Runs Yaw Phase I II I 0.6 0.5 0.7 0.2 0.2 0.3 0.4 0.2 0.3 1.5 1.2 4.1 5.1 2.4 7.6 0.9 0.8 0.9	With High Pitch Runs 0.7 0.8 0.0 0.3 0.9 0.2 6.6 3.7 5.3 7.4 1.1 1.3
	Nav Runs 3.9 0.4 0.6 2.3 9.9	Yaw Runs
	Ref. 3 Pitch & Y 0.5 0.5 2.4 4.8 7.4	Previour UARLTest Pitch & Yaw F 1.0 0.5 0.5 7.7 7.7 9.5 2.4
	Balance Component L, 1b D, 1b SF, 1b SF, 1b SM, ft-1b KM, ft-1b	5, 16 5, 18 87, 18 84, 18-18 84, 18-18



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# TABLE IX EFFECT OF POWERED NACELLE INCIDENCE BASELINE CONFIGURATION: FPBNP5W7TIOBT

in=-3.5°

CONFIGURATION  i <sub>N</sub> ~ DEG	PITCHING SLOPE (		DRAG INCREMENT, $\Delta f \sim FT^2$ , $i_{w^2}O^{\circ}$
	i <sub>W</sub> =0°	iw=15°	
-7	-3	14	1.3
0	-3	4	1,1
5	4	27	1.6

# TABLE X EFFECT OF POWERED NACELLE CANT BASELINE CONFIGURATION: FPBNp5WyTicBt EN:-3.5°, XN:=0°, iw=0°

CONFIGURATION XN~DEG	PITCHING MOMENT  SLOPE CHANGE,  ATR ~ FT3/DEG	DRAG INCREMENT Af~FT <sup>2</sup>
-5	26	-1.5
5	-13	2.7

# REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

SER-720	) [ (
TABLE	XI

22 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	COCKPIT	FUSELAG	96	TAILCONE	CONE	N V	ROTOR PYLON	
	<b>d</b> 0	TAP NO.	<b>a</b> 0	TAP NO.	4.3	TAP NO.	8	
	8+00-	211	98074	345	1656	120	.89920	
	6 - W - W - W - W - W - W - W - W - W -	212	10011		, ,	423	1001.	
	4069.	214	00184	308	1595	454	- 23134	•
	.47672	215	- 111979	306	.2800	425	19150	
	.67292	216	20738	307	30686	426	07062	-
	22857	217	29411	308	32245	427	32591	
2	2769	2 100	1.000 V	300	D2611.	8 G 7 3	1/1910	
25-0- <b>0</b> -0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	**************************************	221		0	86190-1	AZP B	13503	L
2 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	3072	222	801/07	312	-1041-	164	1955	
22 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	-56747	223	• 95125	313	21241	432	11312	
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TAP NO.	<b>a</b> .	TAP NO.	ď	TAP NO.	دع	TAP NO.	<b>Q</b>	
103	- 35447	211	.95,70a	342	7	420	1 2888	
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117	19570	226	21884	316	18365	564	- 4069	
~	.363	227	28193	317	09784	436	21938	
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123	20535	232	21015	322	66690		11208
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126		235	25174	326	04749	M 3 7 4 7 M	79000
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129	24139	238	#4072	329	05282		
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116	13160	N	14251	315	96941	7 M T	040840
117	14876	N		316	13790		****
<b>8</b>	22461	N	17059	317	12432	404	26085
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120	041	2	18781	616	04095	438	19559
121	.31451	3	•	320	06095	434	21281
122	260	m	•	321	0519 <sub>0</sub>	011	25270
123	M	m ·	•	322	06820	- - - - -	12760
124	12167	m	20231	323	12614	747	11762
125	17765		14160	324	07544	W # #	00159
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### REPRODUCIBILITY OF THE

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TABLE 3	Π

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RUN 7	7						
1000	COCKPIT	FUSELAGE	<b>6</b> E	11 47	AILCONE	ZPE	N ROTOR PYLON
TAP NO.	8	TAP NO.	<b>b</b>	TAP NO.	<b>a</b> .	TAP NO.	ď
103	•05050		1.01298	342	00397	420	124671
104	***	212	.14392	303	0'	421	-1.23009
105	30000°		•	300	202150-	123	11750-
901			07/400	205	507	425	-18024
			• •	307	- 28950	426	-13334
		217	1.24914	308	969	427	- 13552
	00 mm.	218	21308	306	354	428	03323
	59960	219	09138	310	,25994	424	00437
112	24510	221	.87054	311	.25093	00.1	- 15589
113	04114	222	.04295	312	11270-	- F	.26982
	.26075	223	. 89308	313	32102	20:	•1606
115	5	224	00122	#   	- 30301	(F) 1	-27224
116	2391	225	-,32487	£ .	92942.	7 3	4437220
	•19875	977	91857**	9 !	EFADY	17 T	P
<b>9</b>	75040-	/27	2014	7 7 7	910711		64040
<b>&gt;</b> (	95425 • -	7.00	n 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ G			
021	26611	227	6.600°		87567 ·	4	27466
. 23	>> 1 3 0 4 4	230		320	2000	0#	27224
77	253/141	232	90 Mr. 0 *	110	26878	7	09907
124	18707	233	1916	323	- 20393	244	20279
125	07618	234	- 13472	324	21204	C # F	10358
124	38706	235	- ,20857	325	05982	र : स	*0167
127	3915 <u>5</u>	236	52501	326	07603	10 ·	•
1.26	29092	737	94120	327	17167	0 10	•0710••
124	10100	238	03729	324	* . Z & 3 3 8		
0.0	7.0020-1-	7.3.7	2	000	17001		
	05041-1-	240	1205	200	14268		
7.	7.017		24837	100			
	04415	243	20497	700	00037		
135	***	244	- 3 25094	335	.05728		
136	37717	¥0 <b>*</b>	•	336	91060		
137	-		1.35251	337	- 25617		
	147/400	400	• •	90°	0.014		
	076	90.7	, ,	340	02649		
•	61707	0.	•	341	-,02289		
1 42	21904	014	18205				
143	.24457		•				
*	17502	412	•				
1 45	98036-	M = 1	- 3 × 5 × 6				
961	K94K6-	P 1	•				
147	29811	6 - 4	1.776. 2.05				
202			24503				
204	040	o T	.2271				
202	.0526						

# REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

The property of the property	RUN B	80							
C	COCK	PIT	FUSELAG	Įį.	TAIL	CONE	i V	N ROTOR PYLON	
223	20	t	AP NO	t		نه	Δ.	<b>5</b>	
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	103	•61892	217		342	.2490	420	.62762	
1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995	10	••26328	212	7	700		423	82021	
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	501	A175.0	7 7 7		308		424	39875	
10   10   10   10   10   10   10   10		1230	215		306		425	61675	
10  26*61   217  26*68   300  16*64   427   427   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428   428		2090	216		307		426	-17985	
1	0.	269	217		306	11664	427	13171	
1	0-	30219	218	05586	309	15836		64763	
1		1294	219	.08375	310	20190	429	•07174	
1		V+50-	223	.63958	311	28082	067	-1020-	
5		. 48682	222	15845	312	42050		56460	
1	*	.52573	223	.65864	513	するとせの・・	432	00000	
1	51	.23347	224	26831	#	24272	777	710/01	
17	9_	26419	225	.05762	318	90261	7 4	1750.	
18	117	30304	226	.05561	916	**************************************	0 4 7 4	200110	
20	=	28409	227	10120	716	FFAZIO-	א פ ר ז	8787 F	
	<b>6</b> 2 4	.07422	228	8709Z*	<b>D</b> (			25.87a.	
	120	64117.	224	2.273/5	A 100	2/2470	4 0 0	10601	
-2250	121	.20632	067	87180	360		077	19711	
-25514	122	S - 4 - 10 -	231	111000			1 T	52501	
	123	40226+	2.56	146941	710	13204	+ + + + + + + + + + + + + + + + + + +	05178	
	124	## S2 2 • •	2 2 4	96170	300	B0101-	Mar	05905	
	125	FF14200		*****	325	11936	サオの	27084	
	921	50/0101	450	18081	326	12389	345	27991	
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	2 .	49044	238	36908	329	42323			
	7,	NEO 1750 I	239	24833	330	. 89384			
		71750	240	.58420	331	06130			
242 .02676 333132 .0750 .03976 .0339132 .0750 .03976 .029876 .02988 .02988 .02988 .02988 .02988 .02988 .02988 .02988 .02889 .02988 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .02889 .0288		2071A	241	05132	332	09668			
-07146		2024	242	•	333	1329			
		23976	243	.07750	334	3731			R- BLI
.05160 .02988 .02988 .02988 .02988 .02988 .02988 .02988 .02988 .03879 .338 .038 .03879 .338 .038 .03879 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038 .038		07146	244	00774	335	1375			
-02908	136	.051	***	67215	336	2363			
	137	.0298R	\$0 <b>\$</b>	61856	337	1332			ا (ا
	138	٠	<b>9</b> 0 <b>#</b>	3587	Ø ( )	600		-	Į.
4062612 40000637 3410634 40300637 34162612 40300637 341263646 40300637 341263646 40300637 341263646 40300637 341263646 40300637 40300637 3326646 417006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 418006495 4	134	÷	404	1380	9.5.C	770.			
41	140	8	<b>©</b> □	0063	0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	20.0			
43	-	. 6261		1210.	115	2			
44	142	2171	7 4					•	
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46 .07512 414 -01896 47 .007512 415 -01845 68 .007512 415 -01845 68 .007512 416 -00345 68 .007512 416 -00345 68 .007512 416 -00345 68 .007512 68	P 1		٠.						
47 -03169 415 -03426 48 -00512 417 -0345 03 -03735 418 -0345 05 -03725		1920-	-	9685					
48 = 006512 416 = 00345 03 = 03735 418 = 0345 05 = 37725		֓֓֓֜֝֓֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	-	.1426					
417 = 0345 03 = 20735 04 = 20646 05 = 37725		1690	-	.0345					
05 37725 4(8 0699	0	.3273	-	•0345					
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	0	.3772		-					
4.4									
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-15 DEG

COCKPIT	RUN B COCKPIT	FUSELAGI	GE	TAIL	AILCONE	ZIVE	ROTOR PYLON
AP NO.	ŧ	TAP NO.	ę.	TAP NO.	a U	TAP NO.	e u
ć	.75.190	211	.7224B	342	19989	420	•63520
0	24001	212	13984	303	25553	421	82422
501		213	.15838	304	38027	423	- 68852
104	133921	214	.12699	305	32822	F 2 + 3	97.75.
0		215	**************************************	906		8 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
<b>9</b> 0 -	12581	2.10	40120	300	# • 107 • ±	9 7 7	4600.
50	M 196101	/1/	\$4050 <b>•</b>		4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	/75	0 / 9 / 0 · · ·
0 :	21851	20 C	. U3262	<b>\$0</b> 6		Ø 60 F 3	13842
	20e80e-	) i	20061	0.0	16 C C C C C C C C C C C C C C C C C C C	424	20/900
112	• 101 •	127				000	01200.
<u> </u>	• 41261	222	94080	312	- 20424 - 10424	4.57	. 10227
* ·	487/60	. 977	Š	7 5	2.2771	4 (1)	
r -	174550	777	0140011	r u	- / / Z Z + +	) # ) #	1.56092
• •	7 - 5 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -	677		915	7.07.12	26.4	15051
		227	\$8K+0.	) ( e	-12803	900	-1637
•	90700	228	14841.	9	11732	497	39824
120	.34726	229	- 25482	916	15142	807	59486
121	.27028	230	.00478	320	26271	434	1 6 9 6 1
127	+11630	231	0688R	321	20617	0.4	21313
123	23373	232	26829	322	13976	***	-+43510
124	~	233	08235	323	12809	44.2	-01384
125	20598	234	90110	324	07065	M:	0 4 4 B O
126	0708-	235	.00747	325	- 04130	# 1 7 P	26899
127	00.10	967	20051 • •	340	0.000		25020
821	57670++	/ P / C	- 24075	367	8/6AP.	_	77957.
167	04/674	9 6	705655	900	* POP 0		
0.6	2/947	6.54 0.85	8,443,0	0 C E	*****		
		241	51777		040001		
100	795110	242	04642	500	07873		
T M	7.000 TO -	243	.00200	334	E 48 40 -		
135	_	244	JO 6 9 D	335	08501		ВЦ
136	03052	7 (O P)	52055**	900	12001		_
137	_	\$ OP	E0188-	750	06F60*=		
170	-	97	F8426.	<b>9</b> (1)	08322		X.I.
<b>1</b>			407/I		05120		•
•	- 4	* C *	D4778		03474		
42	15340	0 = +	04329		•		
	•07512		29671				
*	-	-	35422				
145	01172	m 4	9976				
9.	15920	-	10025 :-				
147	037S-		•				
	9421.	6 r	•				
502	57042-	٠.	F7./0+4				
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0 25	<b>00</b>						
COCKPI	(P1T	FUSELAGE	,eE	TAIL	AILCONE	HAIN	I ROTOR PYLON
4P NO.	5	TAP NO.	<b>L</b>	TAP NO.	<b>6</b> .	TAP NO.	e.
103	,85321	112	.71275	342	22606	1.20	0
0	1524	212	764	606	900	125	• 606
104	9661101	213	12601	# 10 F	49.52.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	250175			n •	9 6	. a	400000
	700000 64986	912	650704	20°C	7077	1 4 C 3	570771
	C#/4101	217	01423	308	- 18424	427	29502
		2.3	02331	60E	133	428	23403
) <u>-</u>		219	1250		10697	429	.0281
	62900	221	50605	7	) LG	064	11752
	1000	233	05497	676	27424	ं ल	19106
-	1 W	223		6 (F) (F)	21969	432	\$ 010C
5		224		3 (6)	-,21151	e e e	35.83C
•==	17670	225	07608		17151	484	50711
117	16964	226	٠	316		435	5770700
971	17870	227	03696	317	13334	48.	22948
<b>6</b>	10440	228	*03947	310	15515	437	E9640
120	100	229	25532	31.9	16424	® # *	45340
121	_	230	01057	320	17333	0 M T	68761
122	•17766	231	09863	321	15970	07	23949
123	+-13604	232	- 2548	322	12879	eed () 강 : 강 :	202
124	14604	533	15372	323	19021	N :	12110
125	16238	¥ (2)	- 1919 	324	• C887•	の:: (*)	TM870.1
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131		240	.52350	166	07789		
1 32	09256	241	17253	332	07334		
133	17480	242	11703	333	05789		
134	10868	243	07972	**************************************	• 00665		X-7
1 35	- C-	244	06971	335	10697		
134	10254	* 0 *	49072	986	.0815		
137	21226	40 <b>5</b>	3007	937	07516		П
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147	E51+10-1	~	839				
8	21490	<b>→</b> (1)	7				
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FUSELAGE	TAP NO.	211	212	213	214	215	21.0		0 0 0	221	232	223	22.4	2.25	226	227	228	229	230	231	232	233	 	236	237	238	239	240	241	242	5 # 3		405	\$0 <b>\$</b>	70# 70	0 0	**	**	412	413	J (		7 - 7	901	•
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SER-72011 TABLE XII

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	RSRA STATIC PR	PRESSURE DISTI	RIBUTION - PRESSURE	COEFFICIENTS		ALPHA = 0	DEC, PSI = 0 DEG	Ö
8 NAG	,				L.	3	3000	
COCKPI	<b>•</b>	FUSELAGI	لما	TAILCONE	0 X F			
TAP NO.	CP	TAP NO.	d O	TAP NO.	a o	TAP NO.	•	
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105	1 - 1018B		1.02/10	F 00 F	# SI T SI	757	4420	
200	.26970	215	11626	306	-18818	425	22216	
108	•31009	-	13787	307	22507	426	21586	
601	12163	217	** 960**	308	18998	427	# · 15 · 40 · ·	
	13509	218	03701	304	21157	<b>8</b> 0 (7	- 0 - 0 - 1	
	14048	219	+10528	310	- 10630	£ 25 :	サウナナー・ト	
		221	09165*		19890-	O .	F0/6	
e	•02108	222	* - 103eS	312	1 / STD - 1	- C - Z		
	(*O+++	223	2,270+	9 7 6	# 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	767		
	76121	225	720111			3 PT 3	000000	
		226		976	1300-	435	- 10 V S	
	14945	227	13067	317	13689	436	25640	
	29216	228	27564	318	07641	437	24379	
120	15843	229	19100	31.9	10440-	8 F	23027	
121	.23380	230	10545	320	- 1962B	D (P) 7	1.21405	
122	• 22931	167	h26h2.	321		) - r =	95/72+1 96/14-14	
123		232		342			100512	
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127	26972	236	50621	326	04332	348	19260	
120	51834	237	20721	327	03702	346	20347	
120	18535	238	43956	329	10990			
1 30	1 3 40 4	239	19646	330	. 86635			
131	65028	240		331	03682			
132	1.03457	747	1.19841	322	reserve t		ER.	
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138	50757	90	- 20504	900	1.04642			
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203	**23063	417	17711					
204	.2495	•	20775					
205	24954							

RUN B			•						)
000	COCKPIT	FUSELA	LAGE		TAILCONE	ONE	N V	ROTOR PYLON	
TAP NO.	ð	TAP NO.	<b>a</b> .	TAP	* O *	ď	TAP NO.	<b>a</b> .	
103	.86073	211	43	ň	42	19997	420		
10	12660	212	•	ñ	303	1555	421	91674	
501	13112	213	18196	Ä	*0	419	423	-	
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-	• 36345	223	.62274	•	13	10390	432	09081	
511	0009F	222	29827	•	1	13542	₩ ₩ ₩	27415	
•	12298	225	17470	•	5	12656	T M T	46475	
117	4554 - · ·	226	90701.	•	•	12837	435	50831	
<b>D</b> (	491024-	122	16377	m (		- 12293	40 (F)	31408	
6.1	\$269E • •	728	6.44777	•	•	10118	437	2541	
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77.	24017	153	******	- ·	17	54540.	D :	24783	
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127	32642	236	68364		24	7.01.00	भी के ति स		
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129	20868	238	50129		29	13834	•	,	
1 30	52604	239	47136	•	30	.86232			
131	*8089**	240	.45581		31	04045			
132	07958	241	-,22822	ď	32	-,05042			
133	08772	242	20282		33	04407			e f Ab
- 34	16548	243	22369	ń	74	.00578			•
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147	20754	-	16977						
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203	- 31 L69	<b>414</b>	1897						
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IC PRESSURE DIS	DISTRIBUTION - PRESSURE	SURE COEFFICIENTS		= VHATY	0 DEG, PSI
FUSELAGE	1 G E	TAIL	TAILCONE	NITE	ROTOR PYLON
TAP NO.	6. U	TAP NO.	٥,	TAP NO.	5
211	.68272	342		420	. 63572
212	24073	303		421	
612	25085	# OF	-143/6 -1731E	424	-58467
215	17767	306	-19106	425	-34133
912	15785	307	20906	426	50267
217	17136	308	17395	427	59280
218	29929	309	20546	428	20613
219	05965	310	12085	424	
221	.56289	311	19000-	430	56847
222	28668	312	15325	431	.27429
223	.58812	313	08664	432	36927
224	20199	#1E	13345	493	35345
225	1 - 1 B + B B	315	12265	7 M 7	- 49005
226	17947	316	09114	4 US	46842
227	21731	317	11005	907	33953
228	61101	318	*****	184 184	29716
229	21010	916	05424	867	27824
230	E / 188 - 1	320	\$5000 - L	ው : ታ :	22767
231	******************	321	# 19 10 · -	D :	22540
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235	10817	10 (A)	*****	* i	1775
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238	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.29	3 C C 10 C C C C C C C C C C C C C C C C		
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243	24324	) T	4/070-		
244	* - 5255 W	(S) (C)	04074		
404	31339	336	0281		
405	35034	337	#*##O * *		
904	17999	338	1.03984		
407	17278	339	700		
8 O #	15926	340	8		
. 604	20162	146	308		
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TABLE	XII

CP         TABLEGORE         TABLEGORE         MAIN HOLE           CP         TAP NO.         CP         TAP NO.         CP         TAP NO.           20073         211         -5723         372         221         -5723         220           20073         212         -5723         372         -75213         420           20073         212         -5722         304         -75214         420           20073         212         -5722         304         -75214         420           20073         212         -5722         304         -7524         420           20073         212         -1970         304         -7524         420           20073         212         -1970         304         -7524         420           20073         212         -1970         310         -7104         420           20073         212         -1970         310         -7104         420           20073         212         -1970         310         -7104         420           20073         212         -1970         310         -7104         420           20074         222         -1970         <	NO.	€0						
C	כסני	KPIT	FUSELAG	, w	1141	CONE	Z	ROTOR
1972   17   17   17   17   17   17   17	N <sub>O</sub>	<b>&amp;</b>	۵	ē. U		a o	2	
1992   1992   1992   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993   1993	103	.69672	211	.6723	342	.2528	420	
1941   2	\$ P	20124	212	.3911	909	102.	- F 3	
16416   216   1162   106   116413   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126   126	5	5/15/04	713	7 1 P	105	1662	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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	108	.15415	216	889	307	980	426	•
	, O	20936	217	1934	308	707	427	i
	21.0	22375	218	4705	309	2212	428	•
	==	30833	219	1871	310	1707	429	•
	112	- 38031	221	5450	311	1400	430	•
. 19420	113	51978	222	3821	312	1202	164	•
	114	.08397	223	5766	313	9889	432	ï
	j 15	.34220	224	295	314	481	e e e e e e e e e e e e e e e e e e e	•
-236995	116	21545	225	884	318	11753	र () ()	•
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	<u> </u>	0/877		8037		512/42	155	
	071	0/628*=	• 2.7 • 2.7	6633	) (P)		0 C	
	171	<b>PET 100-</b>	230	7 4 4 0	320	4000	r 1	•
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	127		236		326	76/61	S T T T T T T T T T T T T T T T T T T T	
	128	0.00	237	25030	327	11302	946	
	129	23995	238	62587	329	06972		
	130	60256	239	70893	330	. 84131		
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ASRA STATIC PRESSURE DISTRIBUTION - PRESSURE COEFFICIENTS

PSI - 10 DEG ROTOR PYLCN	<b>5</b>	.80778	39255	50379	22659	24453	02.34	18622	-13688	.07933	04716	+26054	+23812	1000	TAA 15	0000000 00000	51812·=	6.32478		9-017-	- 23713	40000	. 6		<b>6</b> 5	364				TΑ	BL	E	X	ш												
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PSRA STATIC PRESSURE DISTRIBUTION - PRESSURE COEFFICIENTS

AP NO.	COCKPIT	FUSELAGE	<u>ن</u> و	TAIL	TAILCONE	HAIN	MAIN ROTOR PYLON
	<b>a</b>	TAF NO.	<b>a</b>	TAP NO.	ą.	TAP NO.	8
103	.62628	_	.38119	342	12289	420	.82069
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	-12650	222	05388	312	15605	431	.35760
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121	37772	m	# P P P P P	326	0520-	•	2214
128	*****	•	24475	327	01410	r	•
62.	•	m, •	7,400	320	5,54,00		
			.22241	33.	08525		
132	.0701	-	22791	332	12558		
133	07286	4	21266	333	09152		TA
134	12203	4	25123	334	.03037		.BL
135	21680	# # # 0	-,32300	335	01713		E
2 5	1995710		-34487	337	03058		X
138	-129504	Ų	29666	338	06960.		
1 39	43405	•	25717	339	10317		
140	35984	_	20512	0 # C	0		
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	137	*40*0*	0	•	337	02487		
	138	10523	0	•	338	.0744		
75311 40801626 34005103 73961 40905401 34104291 -27360 4113622 -10093 4113622 -16574 4123635 -16512 41416962 20511 41402800 20511 41501697 36870 41708039	134	40 6 4 R	0	•	339	.0681		
1	0 1	75311	0	•	340	.0510		
2		73961	<b>60</b>	_	4 PM	.0429		
3	1 42	.27360	01+	•				
4 .06574 412 4.398.5 • 14313 4141698.2 • • 14313 4141698.2 7 • • 01355 415 04155 8 • • • 20511 415 02800 4 • • • 03870 418 03497	143	.10083						
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COCKPI	P14	FUSELA	GE	TAIL	TAILCONE	NAM	ROTOR PYLON
K0.	<b>t</b>	TAP NO.	<b>b</b>	TAP NO.	<b>&amp;</b> U	TAP NO.	<b>t</b>
.03	.64264	213	.59989	342	-24492	420	91017
0	.00020	212	456	303	27481	42.	.2042
105	.13754	213	2209	304	26757	F. 2	4/14/1-
106	• 40139	214	Į,	308	6863	T ( )	10487-1
107	****	215	0	906	4.97.·	6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
90	500	917	02654	307	4061	160	1/10201
100	04757	/12	.080.	<b>9</b> (0	****	/27	70126
	151	812	9/240	406	26201	0 ° °	
	62461.	Y	Pro	D .		677	
71.	840	127	7.106+		163130	00.4	30 C
	?:	277	607/00	-		- 0 m	30 VE
• u		200	0.020	-	20001	1 6	## CC .
	V0000	225	0754	916	4091-1	1 T	
	•	326	4 4 K C	716	2006-1	भी ज	44744
	7	227	\$0.040.1	716	70011.	19	9 CT
	+S++0.	228	.00332	916	21050	101	5 + 30 +
120	2024	229	20067	9 T F	17608	807	70823
	.0200	230	.00332	320	18514	• M +	15312
122		231	.00242	321	**990**	0 : # :	21027
123	17961	232	21004	322	91440-		1195
124	02742	667	0.960	323	5/041-		
145	5	757	14710	F 17 1		7 1 7 7	****
126		535	1000	9.00	91.70	F 4	701610-
127		22.7	24128	327	14794	4 **	11020
2	60.40.00	238	14077	329	- 1380¢	•	
30	0098	239	06415	330	.74868		
131	7684	240	. 44032	331	00166		
1 32	45	241	10366	332	9+940*-		
133	01154	242	08824	333	04027		
134	-02912	243	9,940	334	.01142		72( E
135	80 s 0 s	542	*****	876 77	74/51**		DI 1
2 -				137	8.07.0		¥
		1 C	1980 TO 1				
96		404	10686	334	03387		
041	74705	•0*	08237	0 7 7	06175		
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	5		20480-				
n	ביי						
	MATEO.		2.52				
<b>4</b>	10,400		-17943				
44	06022	10 T	101 42				
	•	-	+5040**				
203	42732	417	=				
	344	_	13407				
205							

## REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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RUN 9 COCKPIT	p +14	FUSELAGE	9	TAI	TAILCONE	ALPHA-10 DEG, PSI10 DEG	DEG, PSI 10 DEG MAIN ROTOR PYLON
.0%	5	TAP NO.	8	TAP NO.	<b>6</b> U	TAP NO.	5
103	•	211	5974	342	23141	420	31335
104	204	212	.00618	303	19739	421	-1.33788
	15041	213	15310	¥00	F. 16137		62819
201	<u> </u>	215	0 1 5 TO 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	306	74010	***	- 45145
	749	216	******	9 C K		8 4 6	
	0211	217	-11189		-20550	402	
011	•6000•	218	04334	608	2020	428	*****
	04101.	219	.10804	310	11404	429	**590**
	.09451	221	.50103	3.5	- 13345	430	- 20076
	•23034	222	04740	312	79011	431	. 15635
-	.43248	223	.51365	313	13345	432	04836
- 2	.30312	224	18310	316	17038	433	05737
*	04343	225	9.980	315	74151	せのぞ	54072
- 1	01758	226	12722	910	99051	435	5190
<b>9</b>	.03273	227	09024	317	**901	404	58661
-11	01668	228	28854	218	12265	437	47399
120	.11537	224	1 65 9 B	916	10824	<b>8</b> 00 #	49383
171	#0450+	230	\$ 2 6 D D *	. 320	07402	434	16468
771	7.70.	6.51	Dn 150.	321	06231	0 1	21150
. 24		4.5.K	**************************************	N 10	24450·-	(T	39103
125		3 1 10	917/11	7 17	9117111	755	19921
126	1100	235	82°C	100		7 a	975
127	07687	236	- 2003	100			
128	14063	237	20564	327	09653	) (P	-17128
124	1 - 17928	238	17589	329	05150		•
	£2233	234	40591	330	.77430		
101		240	. 43072	331	06591		
	12070-	** C	/0 Mg * 1	332	06541		
7 6	/ <b>4 4 6 6</b>	7 5 7 6	25 / Jr ] * 9		89610		
		7 3		T 100	FF. 60.		
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		40.	12230		•		
	79013	¥0.	1015116	) #   M	00.00		
	71737	# O #	13132	0.56	4960		
	72725	404	101410	770	0452		
	.09112	0 t +	13042	•			
	. 18634	114	33332				
•	75	412	34554				
145	_	m I s	- 24584				
	•	₹ ( ****	19174				
\	2000	n •	20482-1				
D #	7 705 -	0 r	1				
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TABLE XIV

o Ni		·				ALPHA-10 DEG, PSI 5 DEG	,PSI:-5 DEG
COCKPIT	<b>11</b>	FUSELAGE	6.E	TAIL	TAILCONE	I V H	MAIN ROTOR PYLON
0	<b>e</b> .	TAP NO.	80	TAP NO.	ď	TAP NO.	<b>5</b>
	.76494	211	.59384	345	14953	420	13027
50	.0987n	212	• 00389	60 E		4 23	1190
501	• 13695	213	76491	305	•	424	41801
90	17075	512	12107	306	~	425	27871
) <b>.</b>	.08269	216	12642	307	N	4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	-1617
	.01331	217	11660	308	2030	124	1111111
10	.03643	218	F 890	90£	2066	971	
_	.03377	2 i 9	.13866	310	7 6 7 6	17.	9 6
_	01783	221	#M807*				. 24901
	.15207	222	05770	312	10100	432	11150
*	.43316	223	- 5244 - 5244	J 10 C	700711	433	90480-
1 1 S	.33175	T 10 10 10 10 10 10 10 10 10 10 10 10 10		717		T. T.	45730
9 :	00270	423	15046		**16112	435	47427
~ .	001103	227	0.00.00 0.00.00	317	- 10584	436	22514
0 0	7/07000	228	- 36383	318	-,03985	437	- 30550
. 20	*****	229	16302	319	1.290	80 T	29426-
~	6.000	230	00236	320	06660	>	100/1-
122	0124	231	18/11-1	321	06571	) ·	23440
123	5	232	14784	322	SER 60 - 1	7 3	
124	+0000-	233	21210	M 44	2/1510	. 2	02869
125	02672	234	12979	356		344	17102
126	200000	502	13872	124	7.500°-		13437
127	\$125I00	756	8007:-	327	050	*	1466
871	96.07.0	238	2:300	329	03182		
	1010037	239	24655	330	.77072		
	/ BUSDO = 1	240	.41712	166	06303		
132	.02932	241	21567	332	05233		
133	.02754	242	26#41"	W			
134	01516	E # Z		7 40			
135	**************************************			466	• 00058		
•	92.51.	. 4		766	03272		
75.	990070	90,	10727	338	+/0+0		
7	73121	404	09661	339	•01187		
0	70453	60 (C)	15638				
-	71253			•			
142	-03554		. 32068				
? .	9 A A A A A A A A A A A A A A A A A A A	2 -	32961				
5 -	04432	£ [ #	20371				
7	12279	414	19299				
4	21263	4 1 S	- 15995				
-	33538	• I	•				
203	1	-	1668				
104	~	_	b7661				
0	28797						

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TABLE XIV

COCKP17  TAP NG. 103 104 105 105						OFFICE COSE TOTAL	こうしょう こうじょ
N N N N N N N N N N N N N N N N N N N	<b>-</b>	FUSELA	16E	TAIL	AILCONE	HAIN	4
	5	TAP NO.	<b>a</b> 0	TAP NO.	a. U	TAP NO.	<b>a</b> .
	- 10	211	58948	342	15398	420	.41813
105 106 107	10767	~	02687	303	£9661 ·-	421	-1-0+0-1-
	.10767	213	9.11376	* OF	\$ 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	F 2	0.0.0.
		215	10000	606	REBOY	1	
00		214		307	1.24617	426	E#912
601	-	217	13079	306	22201	427	56866
110	-	210	10210	309	23364	428	09543
	0530-	219	-11557	310	07701	424	11335
	• 1075	223	-4954	~~	13877	067	2024
		222	* C * C * C * C * C * C * C * C * C * C	312	06537		•2352•
-	M925M+	223	\$0110°	313	+-14324	432	16911.
	19000	562	2.0002	* 4 - F	10.1600	2 4 4	/ B / B / C / C / C / C / C / C / C / C
	20000	226		7.5		. 4	45.00
97	1.0417	227	101010		100111	1 40 M	06486
119	44145	228	1000 mm = 1		04121	100 t	26662
120		229	8167.1	916	11728	- 00 PT	12667
121	• 04035	230	07256	320	11639	439	19492
122	.01928	231	30906	321	13250	077	06962
123		232	15229	322	11907	1 7 7	15190
124	+9110	233	25441	323	12534	442	-10619
125	•	234	16035	324	**09938	M T T	•
126	19589	235	16035	325	05732	オオの	16204
121	23160	m (	3726-	920	03226	S T T	•
82	900000	m (		327	52510	8	•
471	/ DBM   + +	9 1	Z0G67++	364	# # # # # # # # # # # # # # # # # # #		
051		7 :	0.000	000	10 FOC		
- 6	06/07-	240	- 38/02	100	1.08327 1.04359		т
	F 10 C C C	. 4	10000	133	92222		AE
134	06250		16214	) # ) M	20650°		<b>3</b> L1
35	20650		24008	SPE	• 05277		Ε
136	23964	<b>+</b> 0 <b>+</b>	42526	336	.01676		728
137	33517	405	32219	337	06627		IĀ
38		् जि	21860-	338	05195		•
139	71284	<b>10</b> €	\$200Z*-	<del>р</del> (	E0000*-		
) • • \$		9 0	0 0 7 0 7 0 1	) i	B//20*1		
- 6	44040	) T	*******	7.7	0,000		•
		-	4 2 7 C 4 6				
*		412	28723				
145	20303	413	29530				
941	•	まいま	26214				
147	=	5 7	20298				
*	35571	• I	17789				
203	26606	/ l b	. 185				
* O C	94998		•				
£0.2	£261200						

RSRA STATIC PRESSURE DISTRIBUTION - PRESSURE COEFFICIENTS

RUN A COCKFIT	ج. ۱۳	FUSELA	LAGE	TAIL	TAILCONE	MAIN	ROTOR PYLON
. N . NO.	8	TAP NO.	CP	TAP NO.	t	TAP NO.	5
103	.78928	211	.58371	342	22728	420	94
*0 ·	916	212	10110	303	20581	421	7
601	2250.	Z 1 2	9.662.	300	787	n :	F-6973
9 6	P4610	7 7 7	**************************************	9 C	00007.	F 10 F 1	F6ZA5**
		6 4 6	F00771	9 0	163/7	57F	92//2-
		) · · · ·	7000111	/05 60 F	Z7557•=	2 1 0	1 1 1 N N 1 1 1
2 -		218	10 t 1			77.	P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		219	.04429	5 -	10440-1	) O ()	40 × 10 × 10
112	440	221	- Comp.	) ~	C9 40 - L	430	1.24052
113	75060	222	-16119	312	- 30331	16#	.26196
	.34670	223	.50493	313	[5343	432	-01297
	+3536+	724	10120	314	17450	433	19215
	*10.0.1	225	24624	315	16377	すのす	18474.
		226	19073	316	10652	5C +	のののマセ・・
	£429100	727	12209	317	13694	436	25844
· · · ·	27969	228	41277	916	05553	437	27090
2	20//2*=	177	80 2 T 1 0 1		0.090.	B) (1	28173
1 6 6 7	40000	23.0	2 h # S # + 1	320		) Mara	20826
	776100	221	**************************************	125	2/667-1	) - 1 - 1	9 M M M M M M M M M M M M M M M M M M M
124		10 K	20110	<b>4</b> 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	075714	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2000 C - 1
125	20928	234	17372	# C	00220-	. T	******
126	-+31985	235	17014	325	07253	ナナの	9 9 0
127	31530	236	52469	326	-106716		10831
128	£756+ · ·	237	15671	327	02459		0960-
421	8+401	238	10000 ·	329	13425		
	67713	2.57	#0[VE-	0.55	9/19/		
132	.01120	241	25072	185	07763		-
133	04323	242	22117	466	04122		R-7
134	21634	243	18536	334	00455		
135	31536	244	32772	335	02959		<b>3€</b>
981	24732	**		336			IV.
751		50 F	37F9F0	V60	1042		
3.0	72405	* 10 * 10 * 10	16091.	378	00//01		
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3 <b>-</b> 1	72049	0,0	17334	34.	988:000		
142	12889	014					
	•07366	-	26023				
	402920-	-	New 19 - 1				
5 -	31628	M 87	324/2				
		• •	2000				
	00096	917	- 14051				
203	27310		- 18409				
204	30265	-	2091				
208	32324						

5ER-72011 TABLE XTV

	10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.	RUN 9	P	FUSELAGE	<u> </u>	TAI	TAILCONE	ALPHA-'O DEG,	PSLEHODEG
10   10   10   10   10   10   10   10	10   10   10   10   10   10   10   10	DN A	•	2			a:	Z d V	Ū
Colored	000 000 000 000 000 000 000 000 000 00	103	731	-	5812	342	20019	420	.36948
10   10   10   10   10   10   10   10	10   10   10   10   10   10   10   10	*01	•062	-		303	21363	421	-1.35408
Color	Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Cont	60.0	•	٠.		7 (	271670	5	E-179.
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10	1	108	0	•	-	307	21273	426	19574
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1	11	110	40660	-	-	304	.4	420	26184
1.	13		26524	-	•	310	7	424	37214
13	13	112	20490	N	04940	311	7	430	- 43580
1	1	113	17591	~	26576	312		431	.20358
15	15	* 1	.22072	N	.49075	513		432	27260
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17   111412   226   11243   21444   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   435   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544   14544	17	116	05442	N	29265	33 CF	-	オのオ	50127
18	18	117	12142	N	18240	916	-	SC 7	53176
10	10	<b>9</b>	31348	N	12593	217	-	436	27170
22        1440        1547        1547        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169        2169	22		35368	~	45399	<b>9</b>	7	437	- 18559
23	23	120		N	13400	910	-	9 M	- 29053
22	23	121	07318	m 1	-26128	0.50	21094	D- ( : : : : : : : : : : : : : : : : : :	21520
25	25	122	51520-	7	DOZZ/*-	321	24212-		23045
25	25	5 % 5 %		7 .	F00711	3.6.6	**************************************	- 6	7792.
28	22        17613         325        17613         345           27        26274         236        17613         345           28        2634         237        17613         345           29        16731         327        17613         345           29        16731         327        17613         345           30        16731         327        17613         345           31        17624        25124        25124         345           32        17625         331        17614         345           32        17626         332        17614         345           33        17626         333        17614         345           34        2523         334        17614         345           35        1764        2523         334        17614           34        2523         334        1764        1764           35        1764        4537         346        1764           36        1764        4537        1766        1766           36        1764        45	25.	152712	"		325	716610	7 T	10101
28	27         -36976         236         -65972         345         345           28         -65936         237         -6534         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346         346	. <b>7</b>		) M	17613	325	1.78:	) t T	06661
2919443	28        56989         237        16731         37        26124           29        60624         236        7636         330         -75534           31        76987         240         -3320         -75534           32        76987         241         -76904         -75534           32        76987         241         -76904         -769004           33        76987         242         -76904         -769004           34        76797         243         -769004         -76004           35        76797         243         -76004         -76004           34        76797         243         -71790         -71790           35        60113         405        1794         -71790           37        75691         337        17601           40        75693         330        17603           40        7575         340        1763           41        7575         341        17669           42        76993        1779        1779           44        75668         412        1757         341	127	36976	3	59472	326	11064	Si tr Ci	-13303
29	29	128	59398	~	16731	327	09631	*	11960
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40	40	139		0	23045	339	.0569		
41 = .73066 42 = .15983	41 = ***********************************	1 40	·	0	17575	0.40	.0479		
43	43 = 0.2494 411 44 = 2.44748 412 45 = 2.2942 414 47 = 2.2868 415 48 = 3.5100 415 49 = 3.3657 418		• 7306	О.	17575	140	.0354		
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STATIC PRESSURE DISTRIBUTION - PRESSURE COEFFICIENTS

	RSRA STATIC	PRESSURE DIS	TRIBUTION - PRE	SSURE COEFFICIENTS			
RUN A	~					ALPHA-10 DEG,	PST: 8 389
COCKP	سو د.:	FUSELA	GE	TAIL	AILCONE	MAIN	ROTOR PYLON
P NO.	t	TAP NO.	8	TAP NO.	a U	TAP NO.	t
103	18119.	211	12	342	26117	420	-41142
104	000	212	.3924	303	28700	421	1.25138
501	12225	E [ 7 c	7/6/*	# OF	257475	7 7 7	
• i-	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	51.2	3754	205	-27184	425	
3 5	544000	216	15974	307	26919	426	1929
60.	2000000 200000000000000000000000000000	217	13211	308	17656	427	70785
07.	16845	218	**21680	304	22733	428	カテナー・・
	39234	219	09824	310	18903	424	52680
112	•	122	.47318	311	23891	430	58121
113		222	35943	312	30749	431	-11890
<b>+</b> 11	1 7 1 1 0	223	96747.	313	19081	264	0.000
115	.21980	124	16331	#16	23891	ee t	27976
911	10162	222	-· 34962	315	20595	せのす	54643
117	•	2.26	16688	916	15697	10 m	50406
9		227	14013	317	17369	40 :	28779
617	•	228	52791	318	16677	NO.7	00017
120		224	504+1	ф <sub> </sub>	- + 20863	<b>時</b> ()	F1 ASO
121	•	230	37280	320	2000	۵ ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	すずのの · · ·
122	-+06450	231	92371	321	20239	D:	2324A
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35		24.4		366	14717		
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137	4527	405	53572	337	17567		Q
138	313	407	38143	338	15430		
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92	211	57185	342	36013	420	.37546	RK
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29799	230	53505	320	44335	439	-,24992	
10811-1	231	-1.20492	321	27334	077	- 125171	
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SER-72011 TABLE XX

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122	.67967	251	31927	321	36555	D####	ď.
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221		.89183	311	39093	DOING:	00400
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F: C 1	.77376	213	426nA.	342	-,34769	420	.66987
174	20824	210	.59133	303	3232	421	95075
1115	2210	213	.89311	300	40439	£24	52493
106	13407	214	04580	305	.83002	なる なる な	26171
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116	14654	225	32422	315	07968	なださ	-,41525
117	1606R	226	27149	316	04360	いわす	-,48235
118	21205	227	.04773	<b>110</b>	-,06808	98#	28107
110	3252n	820	1-477	318	16987	F64	32493
12.	16n6A	060	1 - 1 4 4 4	ÓÌF	-,23172	d first	-,2126A
121	.35474	C. F. (i	10400	320	~.14153	CENT	19400
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114	.27579	293	135a	100	01711	(A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	13269
315	.1926	224	08422	314	.02525	en en en en en en en en en en en en en e	62552
116	*200+4×	225	12662	515	21037	すのす	53803
117	.17411	526	.02972	316	-,21832	SOF	54n6A
118	05433	227	57445	317	-,16272	964	44259
119	27221	228	-1.69269	318	.05835	4 kg	02637
120	13nBA	666	.14234	310	.0490A	en Paris	Eleon'-
121	15733	0	.12909	C & F	•	6£4	29280
122	20090	#C	10757	321	00387	Cat	27027
104	17939	242	0.000	200 (C)		다 () 각 : 각 :	-,19471
124	17147	273	24745	323	08065	N F # 2	02497
125	CC/90**	# L	on a training	3 7 7		^ = = = = = = = = = = = = = = = = = = =	
126	- 3010gc	0.0	, ,	U 60 F		1 W	
721	07100.	230	-1.6912/	000		T to the	
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170	1.1000.1.1.	0 0	707/20 I	V 60 K			
1	ARREST TA	000	30.564	) (F			
132	050000	241	10000	10 HJ	- 12433		
133	.17543	222	249A4	100 100 100			
134	05301	243	.00588	334	.00010		
135	35143	544	-1.37206	3335	.07026		
136	29465	さいさ	- 501u2	336	•		
37	28913	5 to 1	04625		•		
138	10000 to 1	907	#J2n0-	338	02770		
139	/020A-1	\ c +	96625	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ခ္ (		
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142	10577	212	01004	426	•		
14.4	0.000	1 to 1	47010				
144	11507	412	73210.				
1.5	344B3	E + 4	.01207				
146	22ª63	414	-91207			•	
147	24976	415	1 - 1 2553				
1430 1430		917	70240				
203	- 37300		109ch -				
#C2	-2922		47271	•			
6,73	CA / CU+1						

Ş	RUN 95					ALPHA.24 DEG	PSI+C DEG
ເບີຍວ	COCKBIT	t IJSDJ	AGE	TAIL	AILCONE	IAI	MAIN POTOR PYLON
FAP .10.	ره	TAP NO.	٥	TAP NO.	ā	TEP NO.	å
103	02298	211	92509.	345	.03769	420	17859
104	C#U8#*	212	•	303	.04426	421	-2,5890A
105	40704	213	1.04134	304	03985	F. 0.7	-1,05324
106	-,25372	214	40775	395	. 92483	101 101	-,69922
101	2000X*-	213	21832	6 ( ) ( )	.17175	10 ( ) ( ) ( )	1.54261
134	- 14 750 40444	216	00000 - 1	100 100	.00746	10 10 10 10 10 10 10 10 10 10 10 10 10 1	-,49786
	00800	~ d	20000	0000	001100	20 20 20 20 20 20 20 20 20 20 20 20 20 2	12,0/16/
1 -	20600 -	010	20001 201011		11786	e o	10000
112	-28780	100	10440	-	10078		76249
113	07673	100	14474	415	.00615	) ÷(1)	11147
114	.22480	, C.	42650	P	68000.	20 PM	12990
115	.15139	224	04705	314	.06792	P D T	63473
116	.29036	225	12230	315	-,22253	対形体	52945
117	.2484n	226	1.01548	315	25670	435	- ASP40
113	05707	227	74714	317	22648	964	46496
119	- 33369	228	-1.95209	313	.16781	, P64	.01408
120	14621	660	02652	0 : ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	.11261	Q PP	-, 42°11
121	1.50.52	D 10	14684	020	-,00699	CIPC :	-, 32283
777	020404	C	1.17.00	100	91414		22n72
r, 3	\$0.75V	N PC	75. KO.	N 6		T 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	-,16753
125	79750-	0.40	131/0*	100	-16076	V F	**************************************
126	39400	1 0 1 0	-1-11152	1 SC 10	17128	सं ()	- 14631
127	37564	246	-1.80739	326	13579	345	-,12002
128	2878n	722	.04792	327	.11786	346	-,09111
129	.02815	248	*00344	329	00962		
130	-1.18061	2±9	2-780	000	.93008		
131	11.36622	240	.64461	ert ( FF ( FF) :	-,06088		
201	7775	7 6 6	21300	N I F. I IO I	09505		
75	- 20000-	0 m	70730	0 m	\$6600 1		
135	43071	## (A	1.54400	ניו (ניו מין (ניו	.07055		
136	5u41R	オンコ		336	.04164		
137	20060	504	.01540	746	-,04642		
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139		F 10 10 10 10 10 10 10 10 10 10 10 10 10	٠	o e	-,05956		
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14.1	- 20036 - 20036	) <del> </del>	-06014				
17 17	50000°	223	00470				
145	#6act	n. 1	408804				
146		71 7	4.0F3F6				
147		415	1.17660				
148	50147	9 4 7	.71				
273	(P)	417	3				
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SER-72011 TABLE XVI

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RUN 96	96					ALPHA=CDEG, PS	PSI20 LE3
COCKDIT	TId.	FUSFI A	AGE	TAIL	AILFONE	VIVO	WAIN ROTOP PYLON
TAP 410.	ده	TAP "O.	<u>و</u>	TAP 110.	ð	TAP NO.	å
193	.62389	211	.65684	345	-,40652	024	53880
104	25709	212	.66470	303	46408	453	27.21.2.1-
1,15	2243R	213	Œ	304	-,49025	10 to	92455
136	.45424	214	770LI.	305	.69112	10 Z to	-, 4109A
107	.32896	215	.17366	306	41960	425 525	58259
108	.11624	216	.14485	207	-, 39998	924	23412
601 601	25700	217	.12783	308	.01736	427	-,28259
C) (	, 200g	218	64109	306	04282	824	60224
## (	** 11 345	219	.11604	310	35942	624	-, 02n59
112	.21672	221	.62018	311	-,38689	064	-,23019
113	5060c.	222	17727	312	4797A	FN de	.07505
÷ .	16216.	222	- 30000	() ()	06506	tu i	- 43587
611	TROSZ.	# u	21210	# I F	35550	in in it	05203
	C+/C2**	0.00	100	313	##290°-	すりは	64286
- 6	010870	922	1/5/13	910	-,06506	10 ( 17) (	-,75028
011	#CC67**	127	01942	317	-,06375	(P) (P) (P) (P) (P) (P) (P) (P) (P) (P)	-,13063
611	10+21.	8000	.21618	50 ( P) (	-,25607	Fig.	- 32F45
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122	11110	) v	27 to 0 = 1	320	02/61-		-, 08347
124	177C0 +		CO+ 1 - 1	7 ( 7) (	01273		#45°01°-
	•	2 F	1.54557 10010	200	79447	T ::	•
125	000100	7 TH C	0.00 to -	0 7 C	- 07040	7 F 4	-
126	04001.4	K	100 km 0 - 1	1 K		i a	•
127	41000	) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	10000	0.00	14170		0000
126	.16191	100	-32262	1000	17626	10 m	22729
129	34705	278	25660	329	16841		;
130	50365	6£2	24275	800	.72382		
131	66026	500	.44031	331	-,09384		
132	18522	241	76420.	332	-,10562		
er.	19697	242	17275	10 to 1	- 13440		
101	. 06361	C 27	7072C*=	# ii	-11008		
135	112CO+	<b>† 5</b>	071170	0 H	96358		
137	12146	100	700 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	000	00/00°		
138	94420	90.4		- 60 (0) (0)	-11870		
139	53236	Lut	.2n343	339	08992		
140	5114R	844	*0A684	346	09777		
141	5532#	644	34941	341	08992		
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SER-72011 TABLE XVI

ALPHA-O DEG , PSI=-15 DEG	TAP NO. CP	1	•	7	ď	ĭ	#25 - #23/400	ָּרְ וּיִ	• 1	•	ָּרָ וּ		' '				•	•	•	•	` <b>,</b> `	•	ľ	i	·		ľ																		
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FUSF! AGE	TAP NO.	•	112	2 (	213	† u	215	010	218	0.50	200	202	293	224	275	526	227	228	660	0 % 0.	I k č	2#5	243	5 T	275	2,40	4 F C	6FC	240	241	2 nc	10 io	# 6 C	t (*)	11.06	•	10 m	•	0 :	_	<b>-</b> •		~. ♥	_	-
96	a. U	ļ	٠	- +	•	0000	10000	- 1-01-01-1	-20435	-11204	12420	.42886	.58119	.36947	1688 <sup>4</sup>	19853	20370	.04029	.36560	*2894u	.14485	14046	-18175	Z1012	07977	0.01570	2014A	1.44050	60130	12108	11333	15077	05cb6	.0.20	02039	44123	45026	4002A	.28815	0674	0226	10.00°	30.00	10.60	.01189
RUN 96	FAP 140.		CO4 .	† ¥	501		100	100	110	111	112	113	114	115	116	117	118	119	120	121	122	127	124	125	126	127	129	, en	131	132	133	# NO .	1.30	137	138	OK [	140	141	25.	7 T		•	L 7 -		811

PCPA STATIC PPESSIBE ATSTOTPHITTON - PRESSURE CAEFFICIENTE

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SER-72011 TABLE XXI

	USPA STA	STATIC PRECSURE NTS	ntstotaljtrou - ppes	PPFSSIRF CAEFFICIENTS			
S	PUN 96					ALPHA = ODEG, PSI=-10	SI•-10 DEG
COCKPIT	1Id:	CIJSFI AGE	GF	TAILCONE	CONE	MAIN	POTOR PYLON
oi.	٥	TAP FIO.	ę	TAP NO.	ď	TAP NO.	á
103	. A331n	211	.6*23A	342	-, 33171	420	.54113
194	-,13667	919	.64750	303	35900	421	-1,30043
105	_	213	.82881	304	-,39410	423	-,73299
176	.21986	214	.04342	305	.66775	ないか	-, 10351
107	.38452	2*5	.04800	306	38370	\$ 50 E	33995
9.1	w	216	.04000	307	- 34341	426	-, 15415
109	-,14963	217	.07171	308	03018	424	19686
110	15741	218	.10683	309	11076	428	-,22543
111	10426	219	19919	310	29662	624	-,03932
112	0163	166	•	311	20304	001 001	-,28269
211	33345 1111	200	Date o · ·	215	20954	In the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	.21577
114	. 59325	64 64 64 64 64 64 64 64 64 64 64 64 64 6	3159E	313	-19394	K) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	11295
115	4354	224	•	# FD (	33561	in in	-,23193
116	1301	225	16895	315	- 0505B	すりか	-,52506
117	1496	919	92640.	910	-07437	6 N	-,51565 -
811	-15482	122	•	317	76000-	011	96621-
611	10 4 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	228	•	318	-13806	184	-,29961
120	2 # C # C *	900	•	319	21214	文 (f) (f) (f) (f) (f) (f) (f) (f) (f) (f)	#9u2b
121	. 32358	0 F &	-,04366	320	25633	on and a	13423
221	.19393	I # 2	•	321	-08907	) 	-01010-
12.5	-12370	21	101101	322	0358	# 6 # # # #	-, 50481
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137	0951A	504	39331	<b>FBB</b>	03538		
130	14574	904	30461	333	0535A		
139	43356 	407	.01274	339	02108		
140	45171	854	CAUST	046	02758		
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76.	.35026	215	.01826	306	•••	102 102	23333
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SER-7201 TABLE XVII

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المحلة كيفيار لمفودة أأف بالأعلى المعالية المائدة والموالية والمؤور الافائد

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SER-72011 TABLE XVII

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SER-72011 TABLE XVII

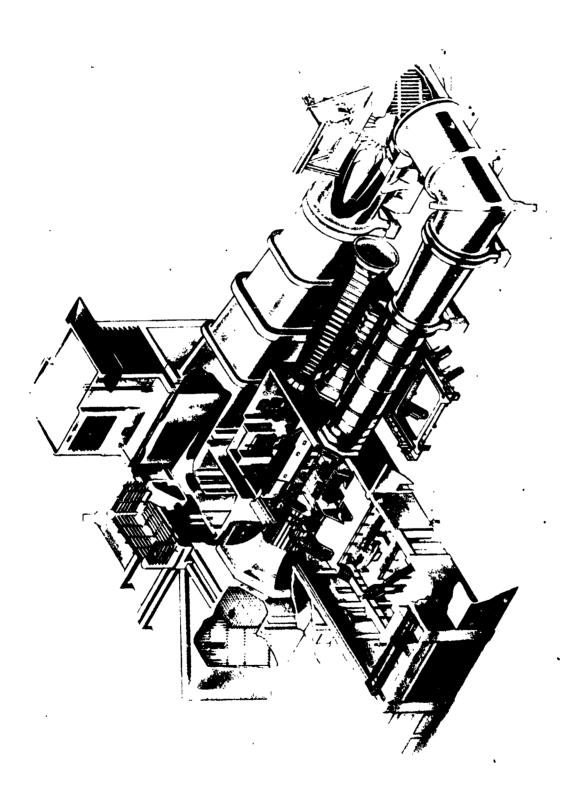
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gure 4 UARL Large Subsonic Wind Tunnel

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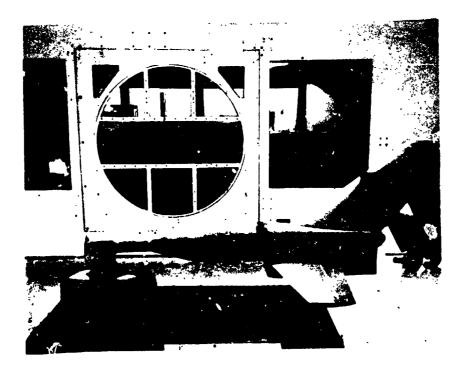


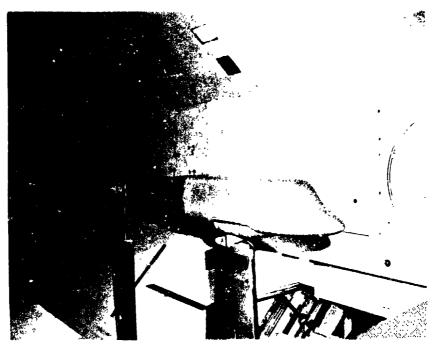
Figure 5 Model Installation - Tail Alone

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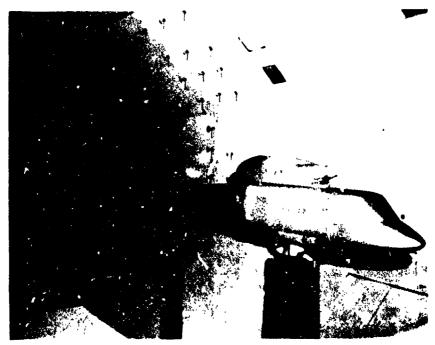
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a Puselage FT2



b В!\*\*,,

Figure 6

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Basic Coffigurations

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c FPBT<sub>2</sub>-Phase I



resis Configurations (Continued) Figure 6

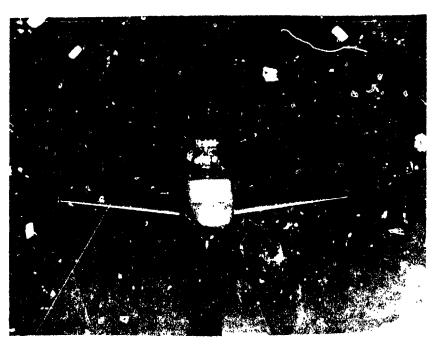


e PTBT2-Fhase II-Front View



FPBTQ-Phase II- "ft View

Figure 6 Posic Configurations (Continued)



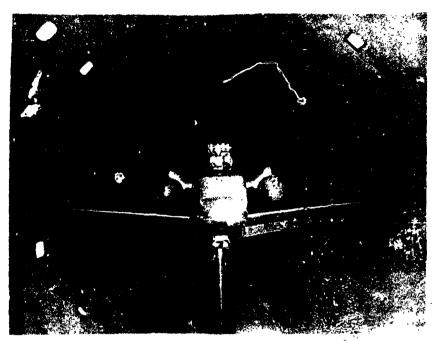
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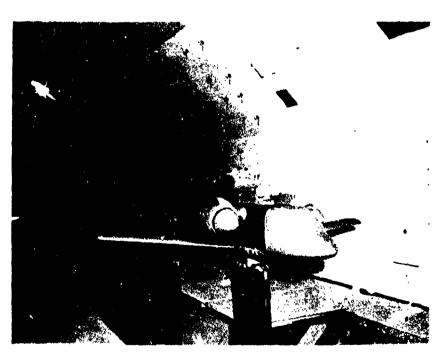
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i FPBWNT2-Front View



j FPEWNT2-Quarter View

Figure 6

Basic Configurations (Continued)

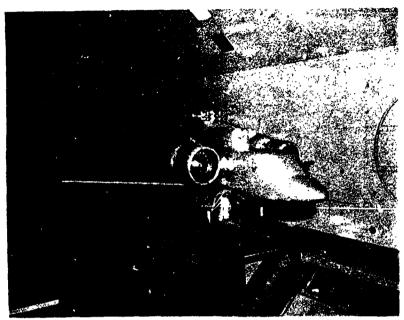


k FPBWNT2L-Front View

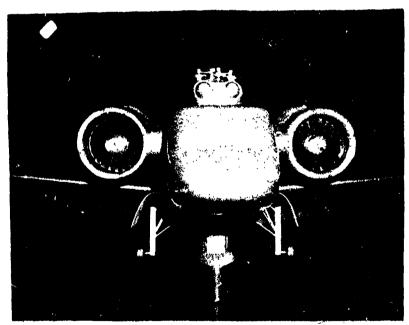


1 FPBWNT2I-Quarter View

Basic Configurations (Continued)



m FPBN<sub>P5</sub>W<sub>7</sub>T<sub>2</sub>L-Quarter View



n FPBN<sub>P5</sub>W<sub>7</sub>T<sub>2</sub>L-Front View

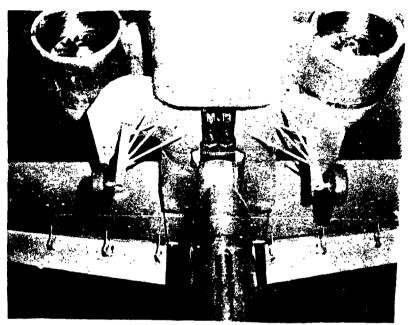
Figure 6

Basic Configurations (Continued)

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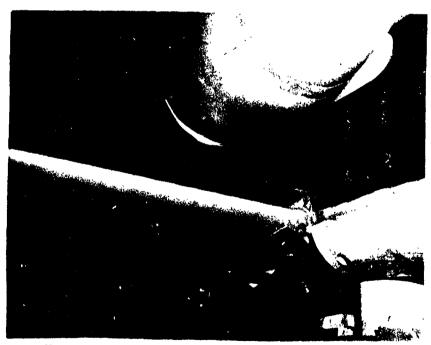
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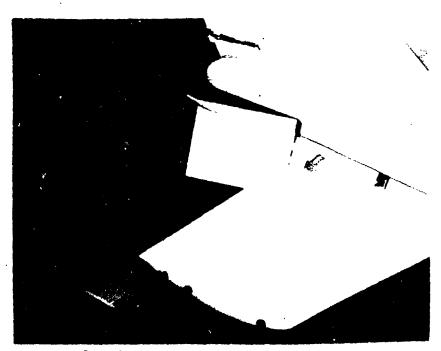
o FPBN<sub>P5</sub>W<sub>7</sub>T<sub>2</sub>L-Bottom View

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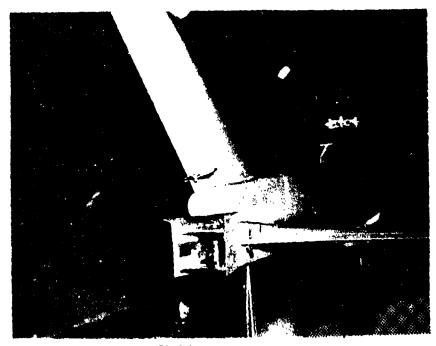


Nacelle & Spoiler

Figure 6 Basic Configurations (Continued)



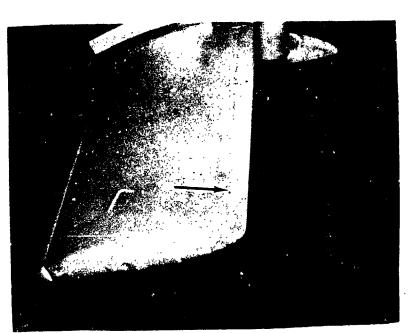
q Speed Brakes-Side View



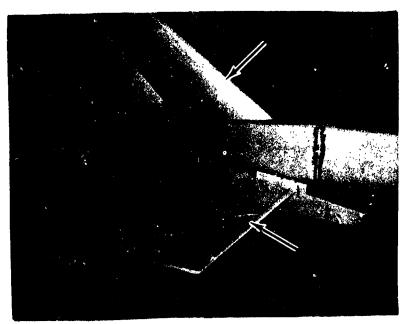
r Speed Brakes-Aft View

Figure 6

Basic Configurations (Continued)

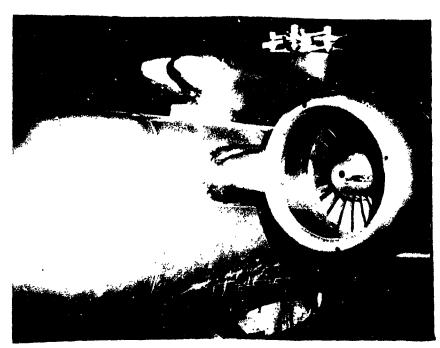


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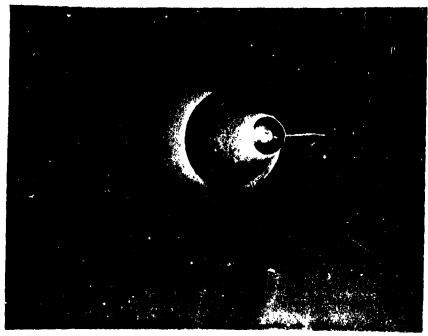


t Leading Edge Roughness Grit Location-Empennage

Figure 6 Basic Configurations (Concluded)

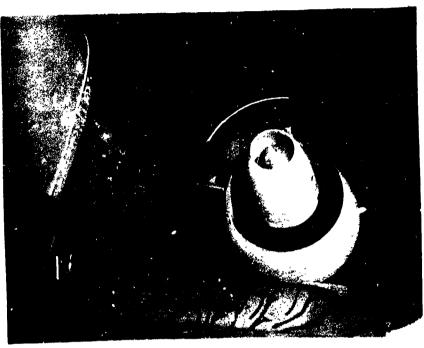


a Np-Front View



b Np-Aft View

Figure 7 Powered Nacelle Configurations

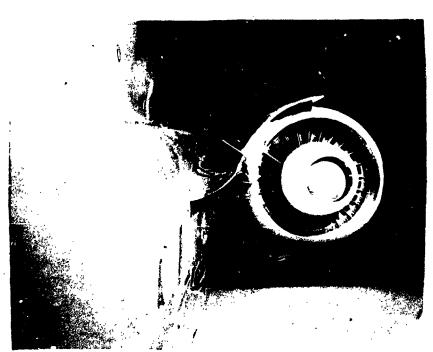


c N<sub>Pl</sub>-Aft View

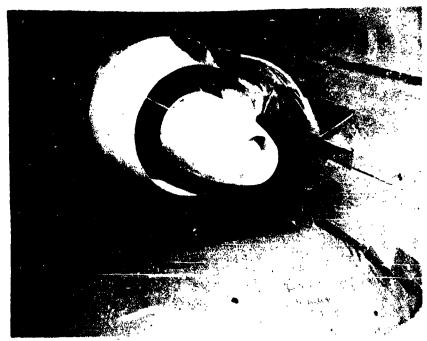


d Npl-Top View

Powered Nacelle Configurations (Continued) Figure 7

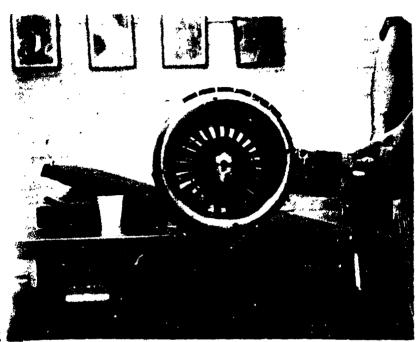


e Npl & Splitter-Aft View

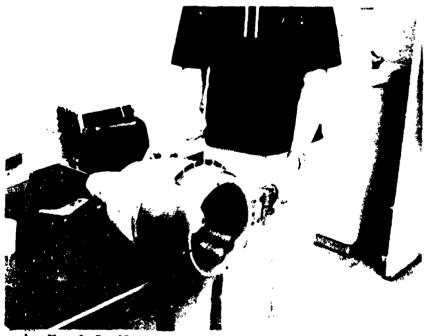


f Npl & Splitter-Quarter View

Figure 7 Powered Nacelle Configurations (Continued)



g N<sub>Pl</sub> & Spoiler

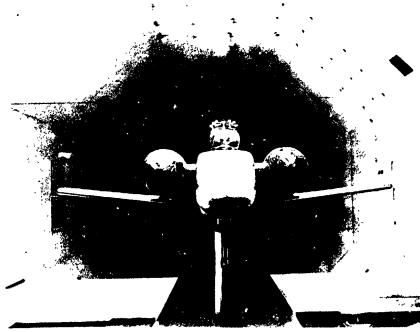


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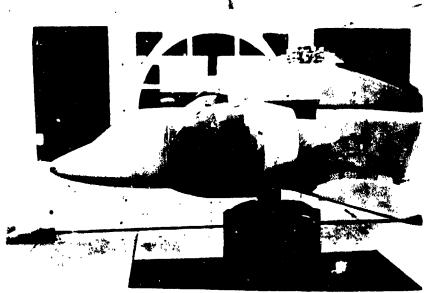
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Powered Nacelle Configurations (Continued) Figure 7

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i Np3-Front View

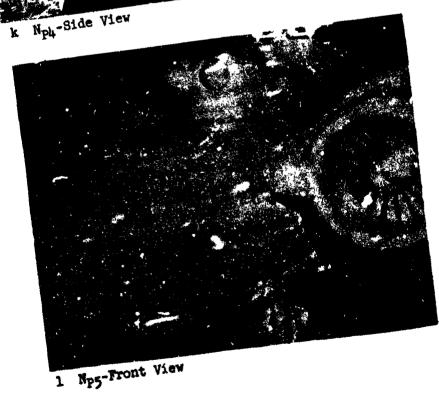


J Np3-Side View

Figure 7 Powered Nacelle Configurations (Continued)

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Powered Macelle Configurations (Continued) Figure 7 176

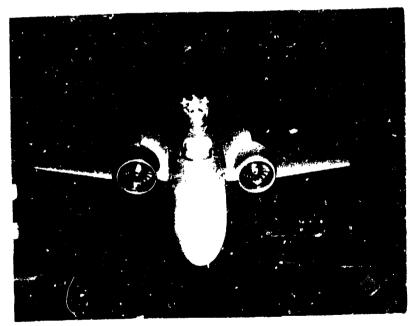
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m N<sub>P5</sub>-Aft View



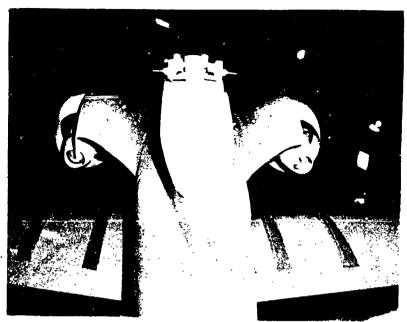
n Np6-Front View

Figure 7 Powered Nacelle Configurations (Continued)

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o N<sub>P6</sub>-Aft View

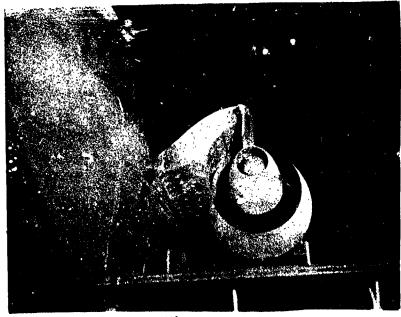


p Np6-Aft Quarter View

Figure 7 Powered Nacelle Configurations (Continued)

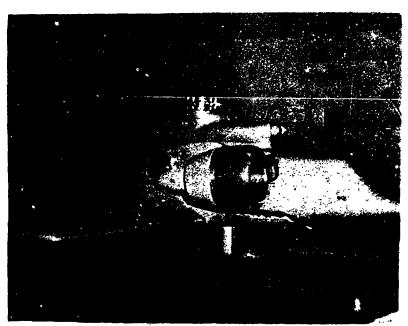


q Npy-Aft Top View

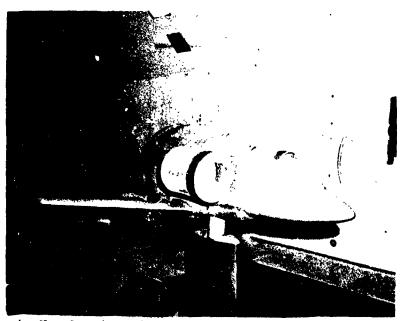


r Np7-Aft Bottom View

Figure 7 Powered Nacelle Configurations (Continued)

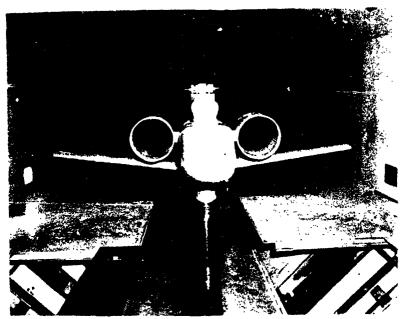


s N<sub>P5</sub>-i<sub>N</sub> = +5 Deg

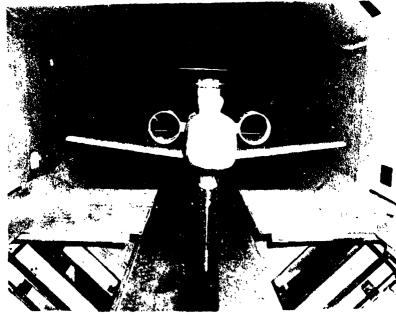


t N<sub>Rl</sub>-Quarter View

Figure 7 Powered Nacelle Configurations (Continued)

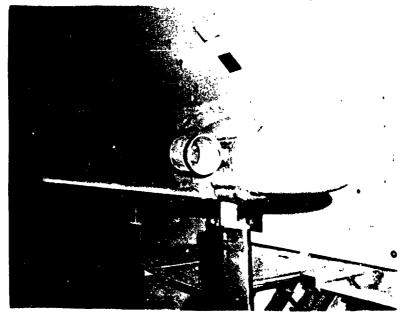


u N<sub>R1</sub>-Front View



v N<sub>R2</sub>-Front View

Figure 7 Powered Nacelle Configurations (Continued)



w N<sub>R2</sub>-Quarter View

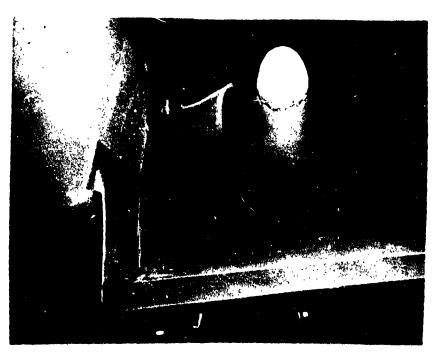
Figure 7 Powered Nacelle Configurations (Concluded)

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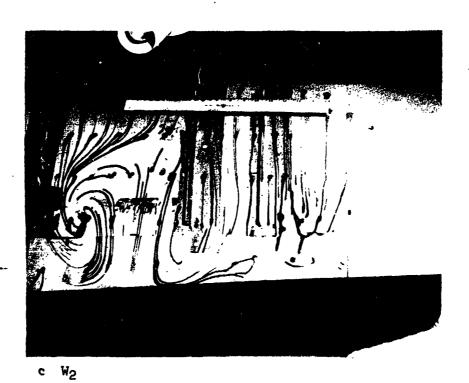
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Figure 8 Wing Configurations

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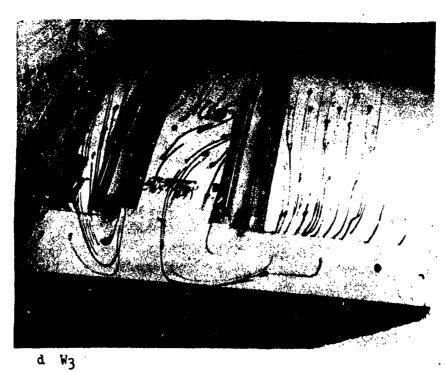


Figure 8 Wing Configurations (Continued)

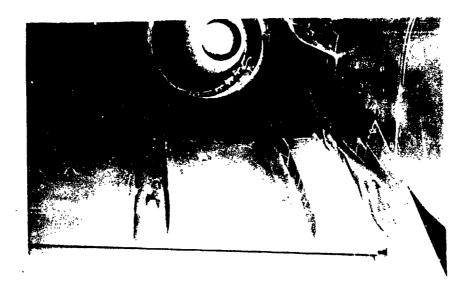
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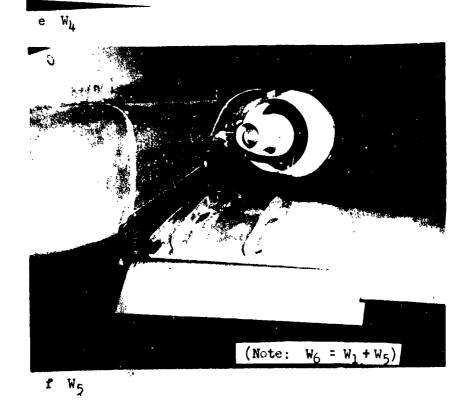
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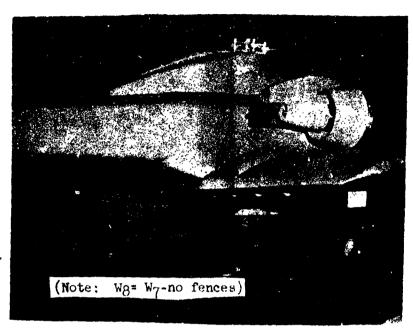
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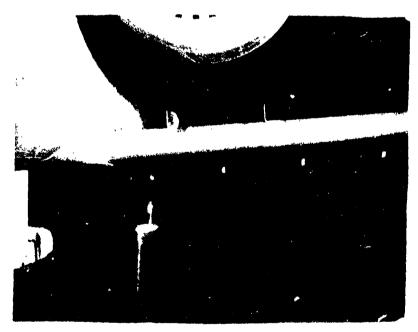


Wing Configurations (Continued)

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g Wy-Quarter View

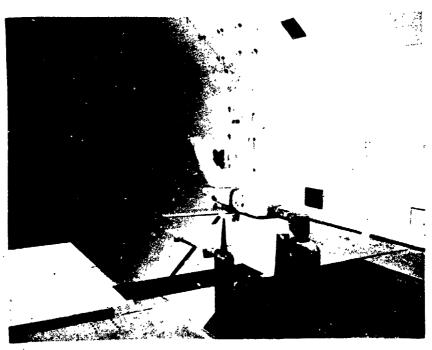


h Wy-Front View

Figure 8 Wing Configurations (Concluded)

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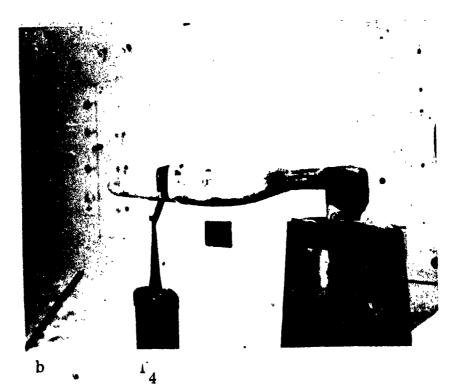
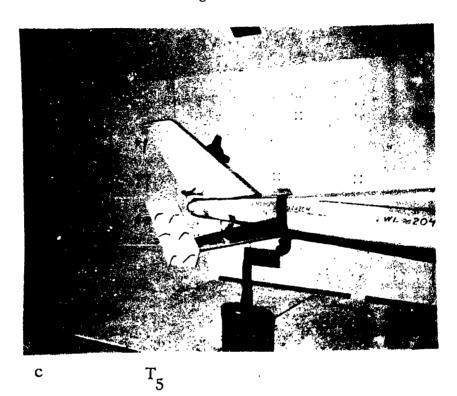


Figure 9

Empennage Configurations

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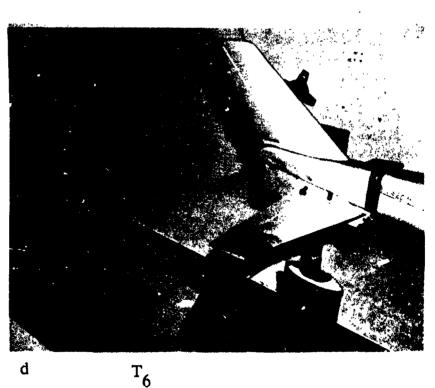


Figure 9

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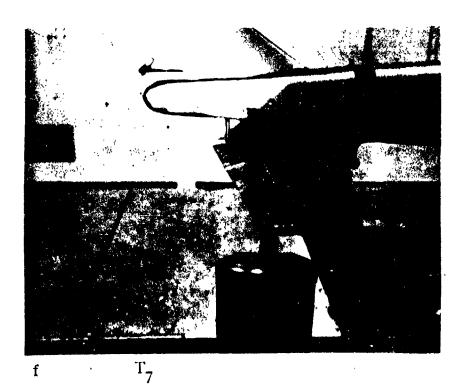
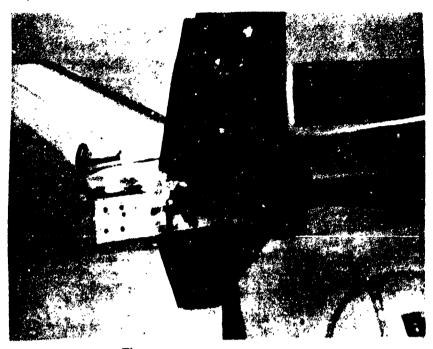


Figure 9

Empennage Configurations (Continued)

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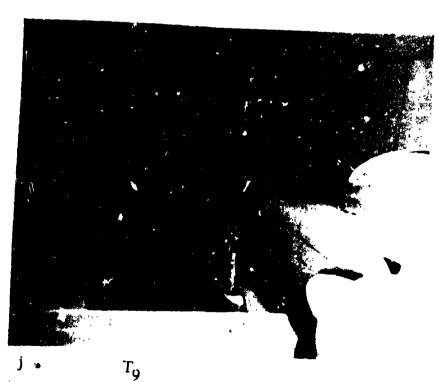
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Figure 9 Empennage Configurations (Continued)

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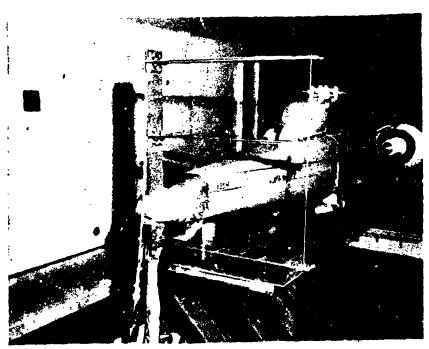


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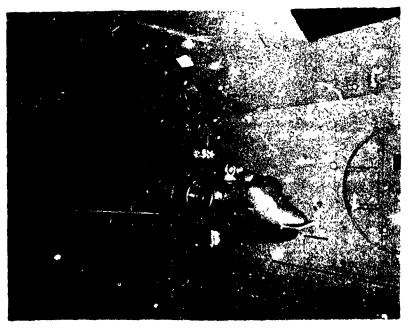
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Figure 9



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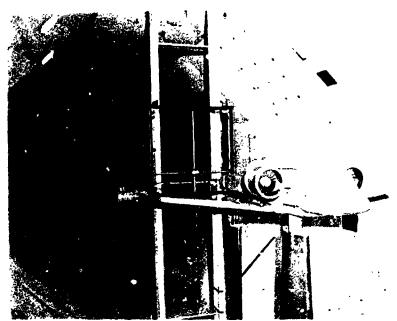


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Figure 9 Empennage Configurations (Continued)

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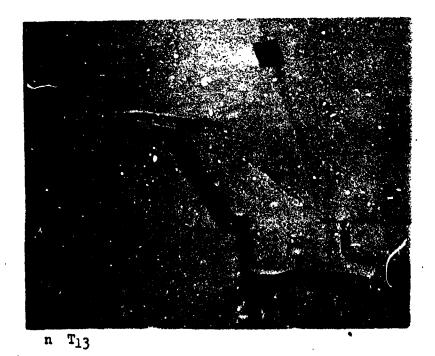
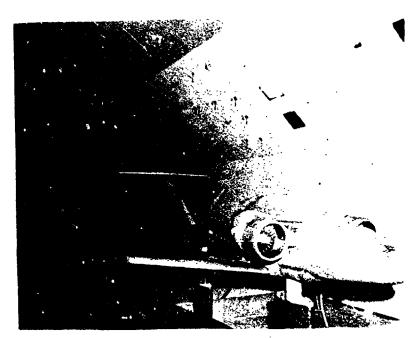


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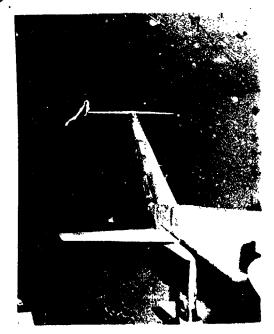
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p T<sub>18</sub>

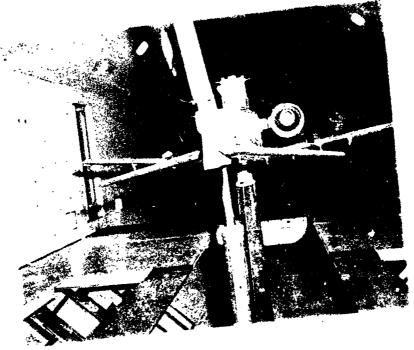
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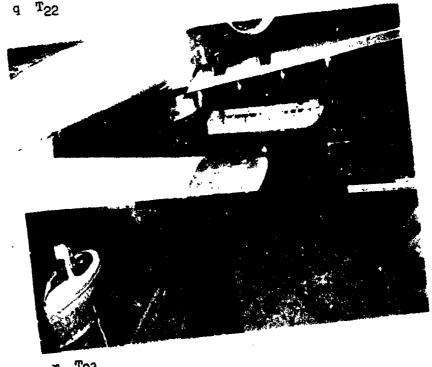
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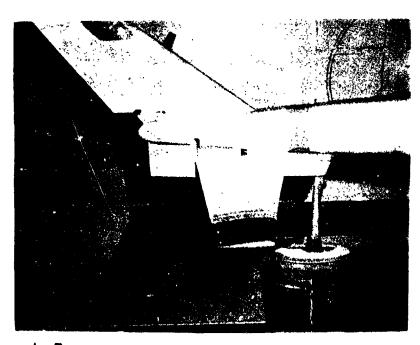


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Empennage Configurations (Continued)



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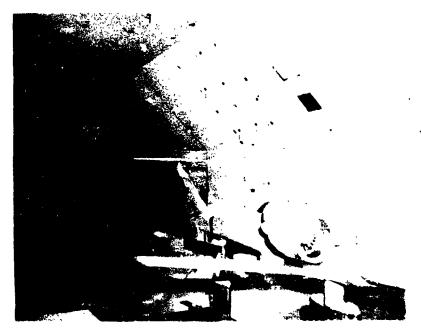
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Figure 9 Empennage Configurations (Continued)

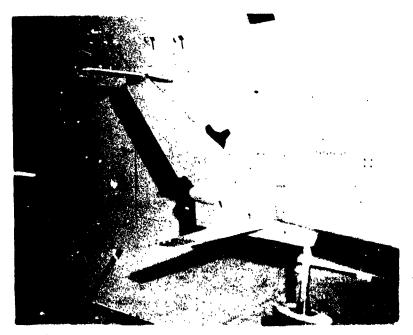
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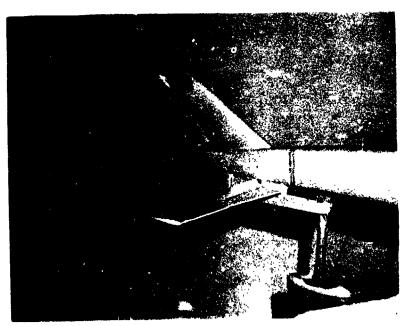


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Figure 9 Empennage Configurations (Continued)

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x T28 with inboard spoiler

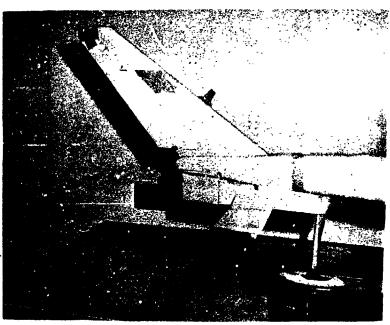
Figure 9 Empennage Configurations (Continued)

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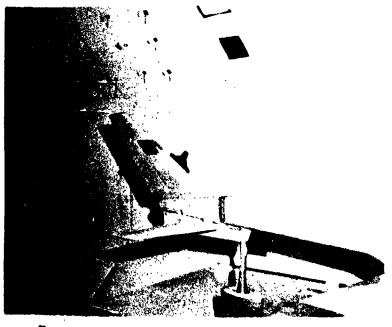
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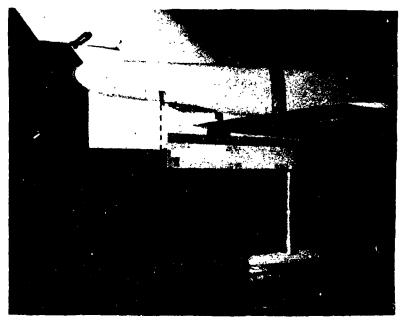


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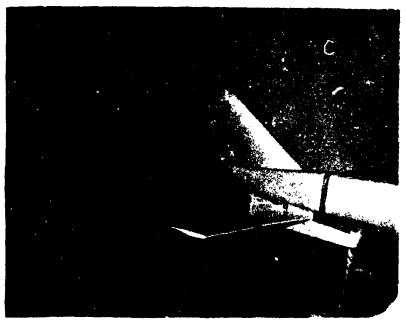
Figure 9 Empennage Configurations (Continued)

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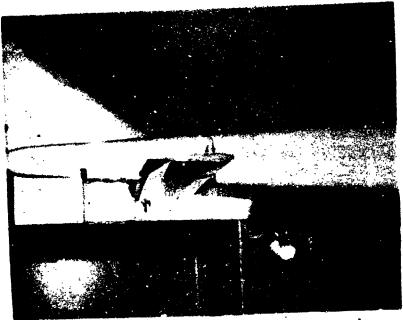
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Figure 9 Empennage Configurations (Continued)

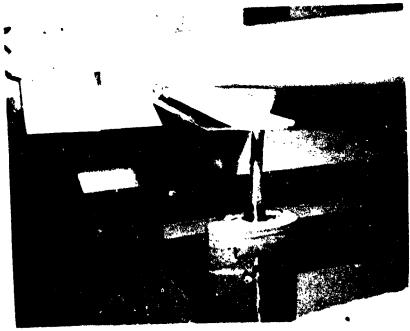
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C ThO with split flap elevator (8 = 25 Deg)



D  $T_{l_1\bar{l}\bar{l}}$  with split flap elevator ( $\delta_E$  =-21 Deg)

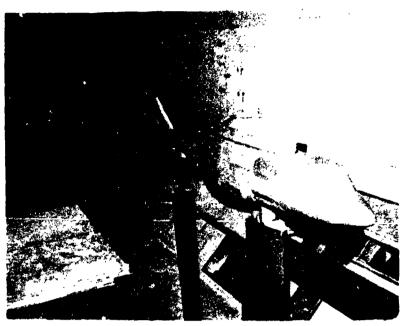
Figure 9 Empennege Configurations (Continued)



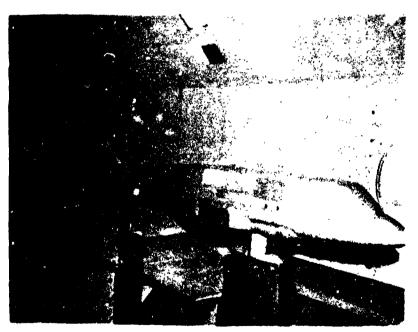
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Pigure 9 Empennage Configurations (Continued)



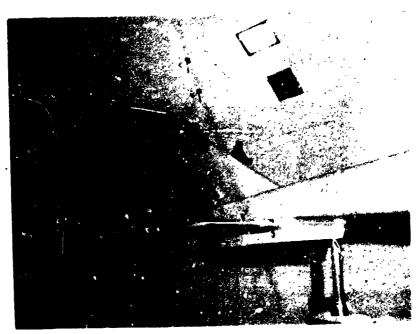
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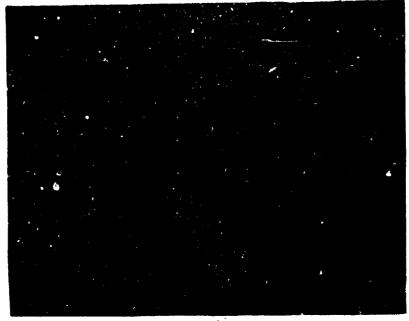
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Figure 9 Empennage Configurations (Continued)

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J T50 (helicopter T-Tail)

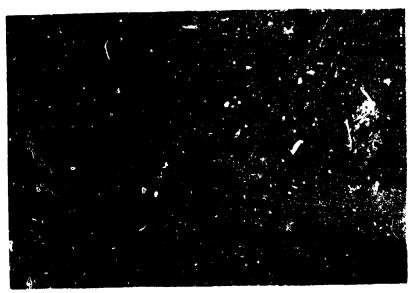
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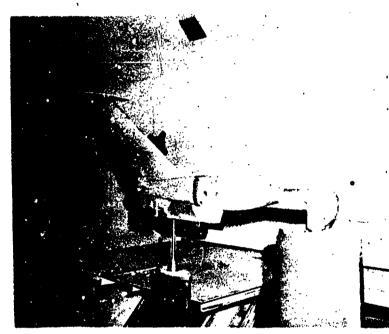


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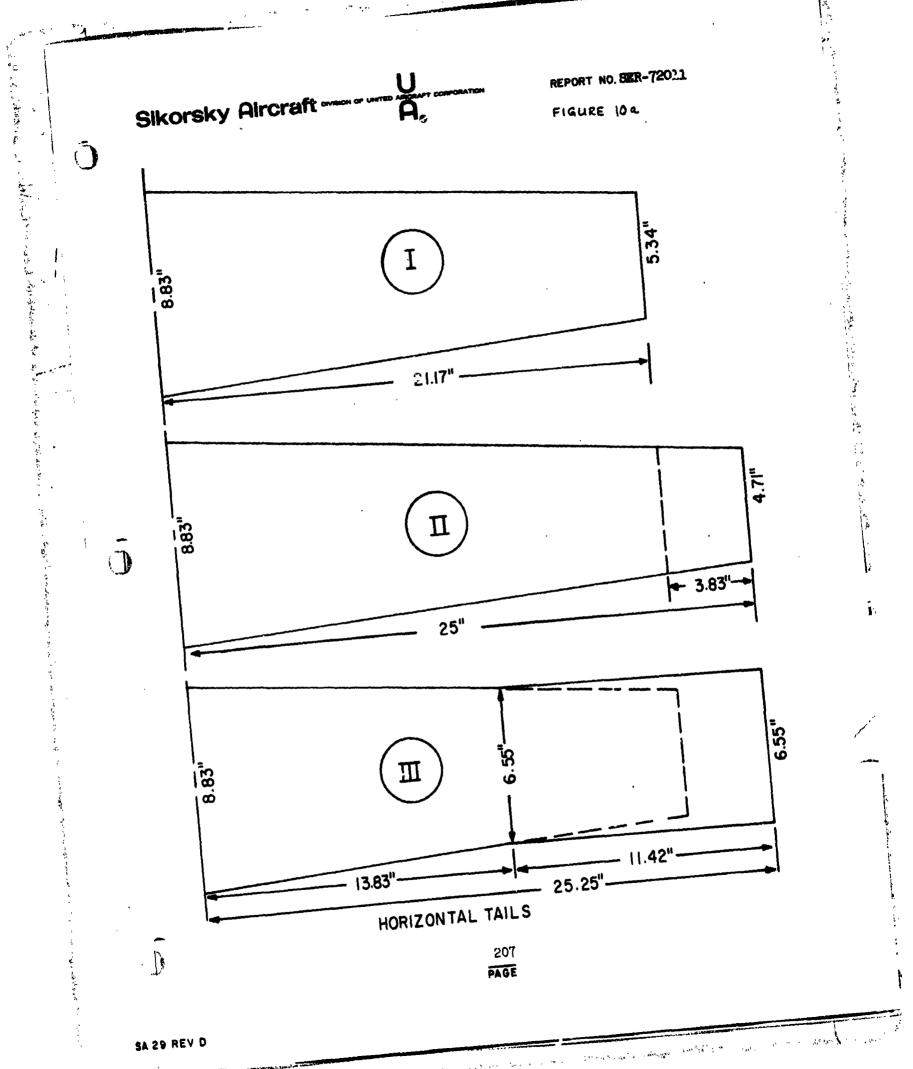
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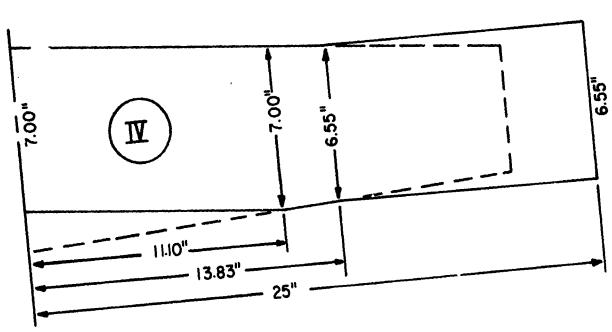
Figure 9 Empenns ge Configurations (Concluded)

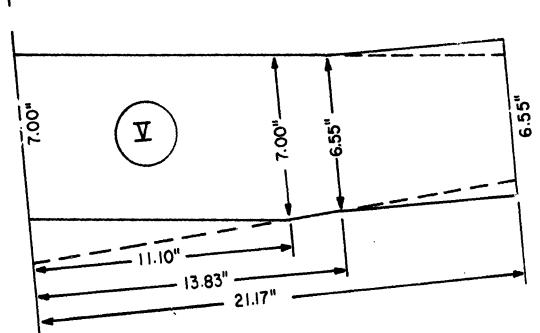
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Sikorsky Aircraft .....

REPORT NO. SER-72011 FIGURE 106





HORIZONTAL TAILS (CONTINUED)

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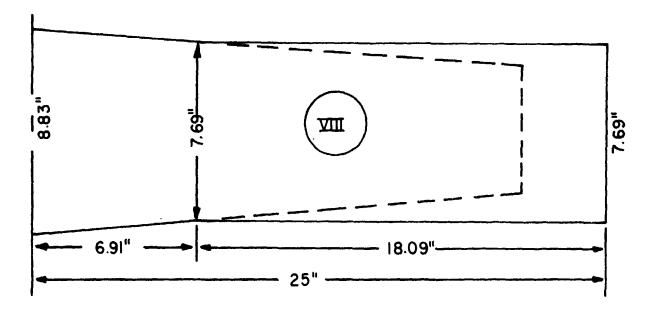
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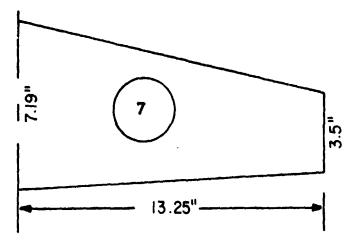
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FIGURE 10c

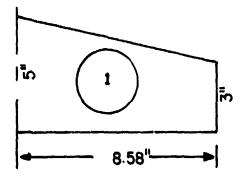
HORIZONTAL TAILS (CONTINUED)

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FIGURE 10d







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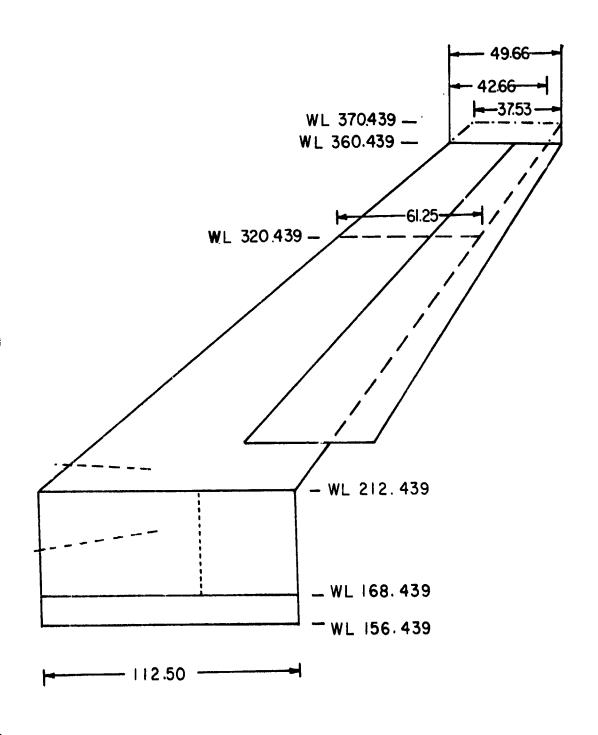
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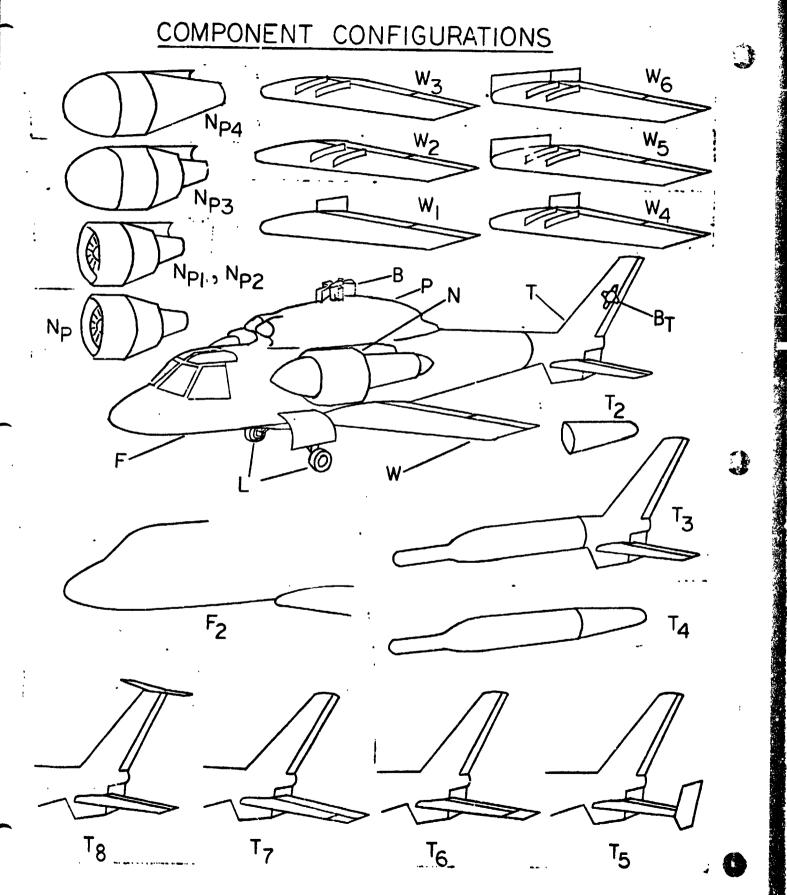
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FIGURE 10e



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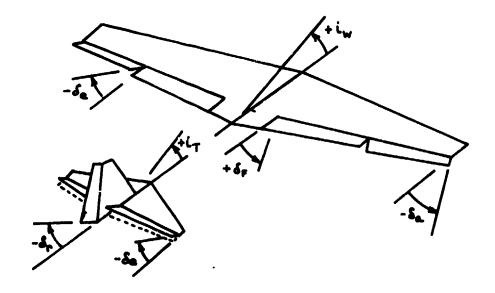


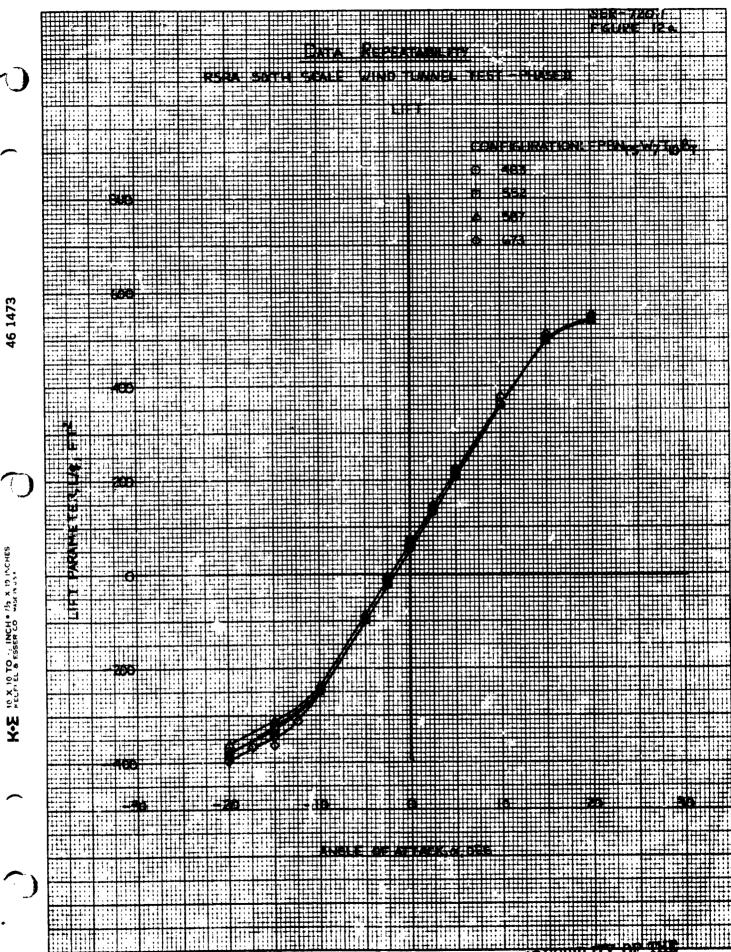
REPORT NO. SER-7201 Sikorsky Aircraft FIGURE 11 a MODEL RESOLVING CENTER WIND AXIS COORDINATE FORWARD FLIGHT P. tching Moment, My AIRFLOW 213 PAGE

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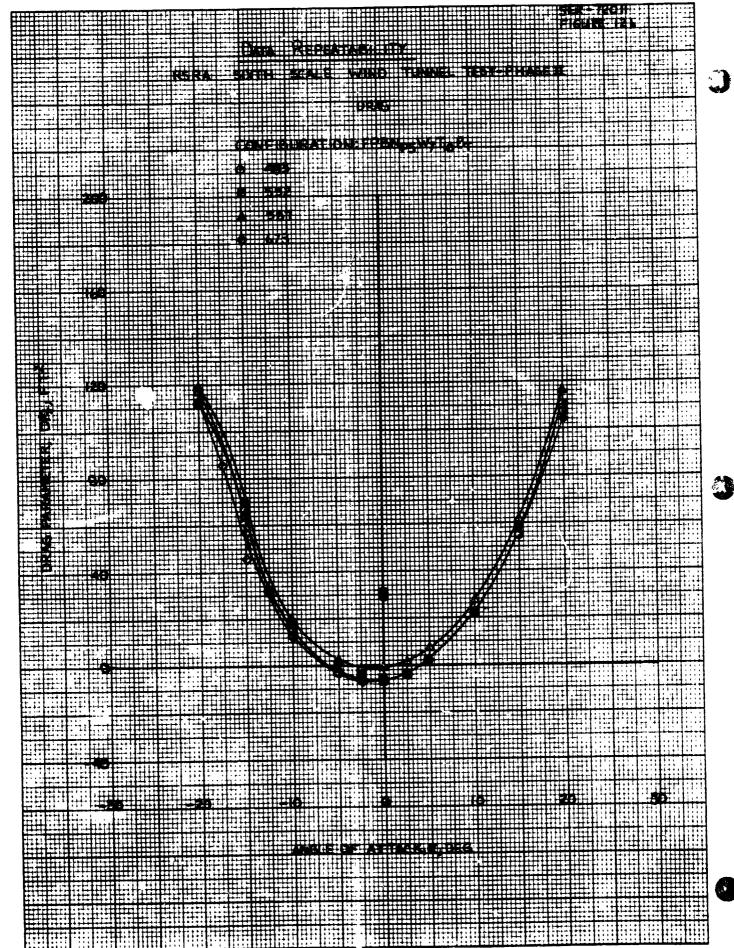
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FIGURE 11 b

## CONTROL SYSTEM SIGN CONVENTION



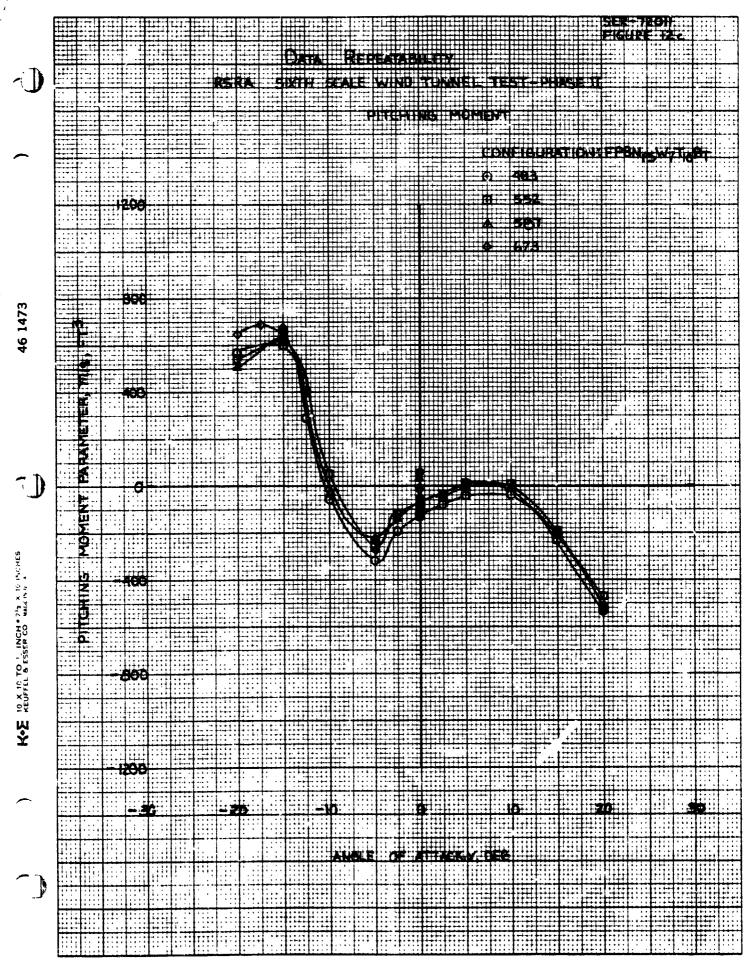


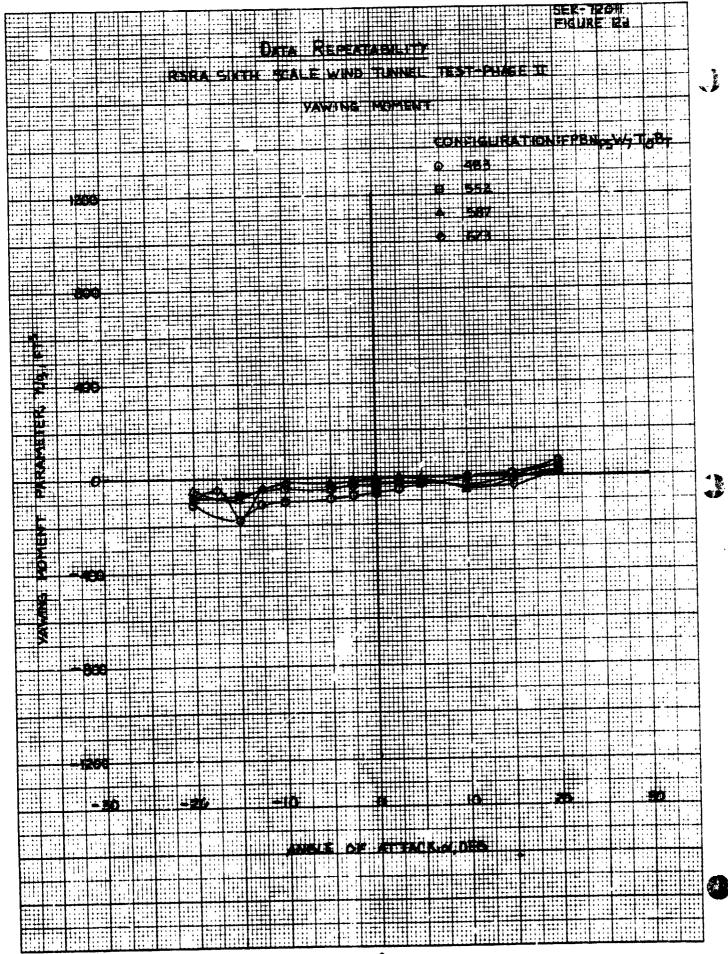
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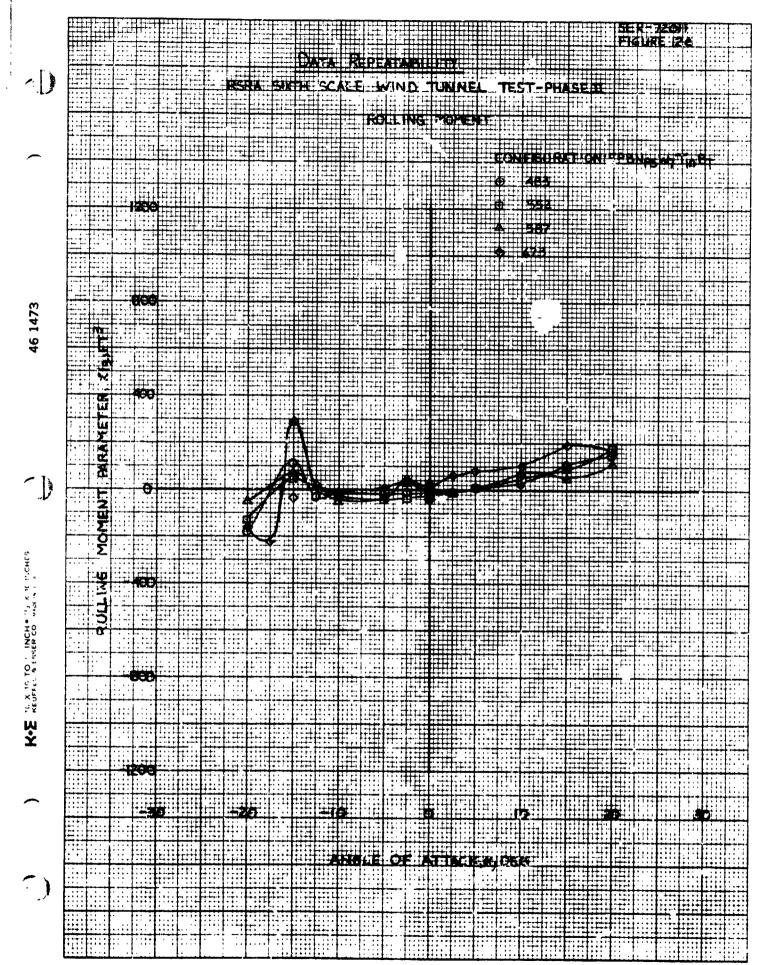


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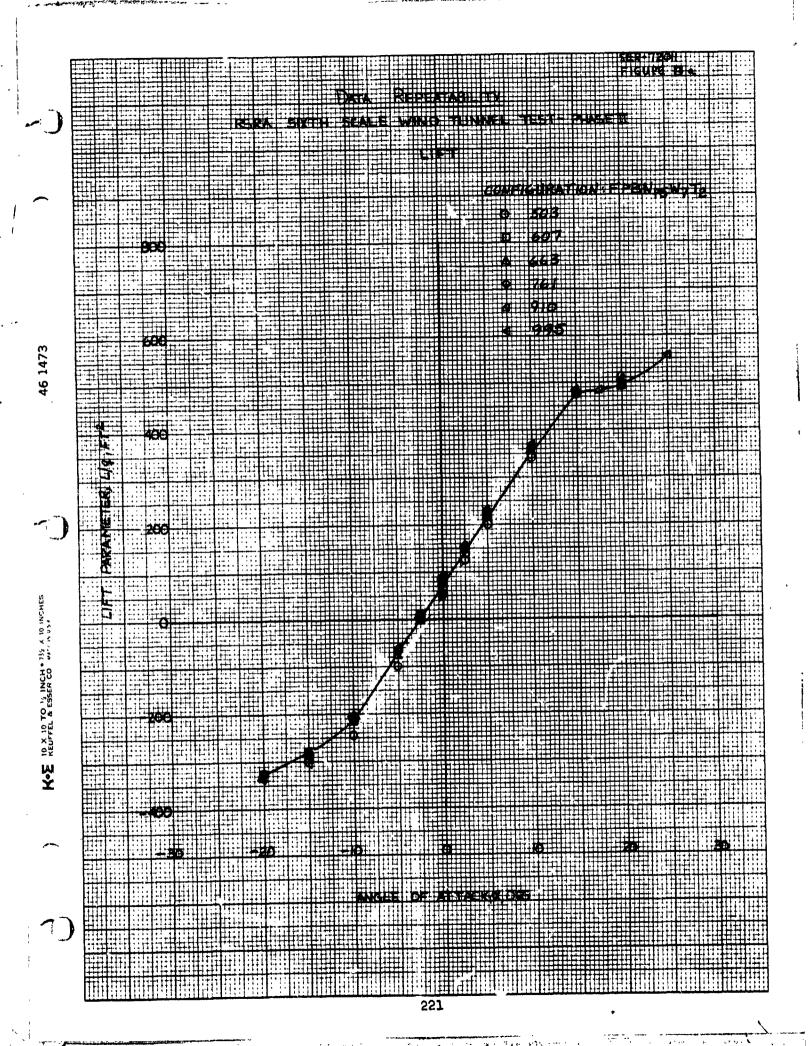
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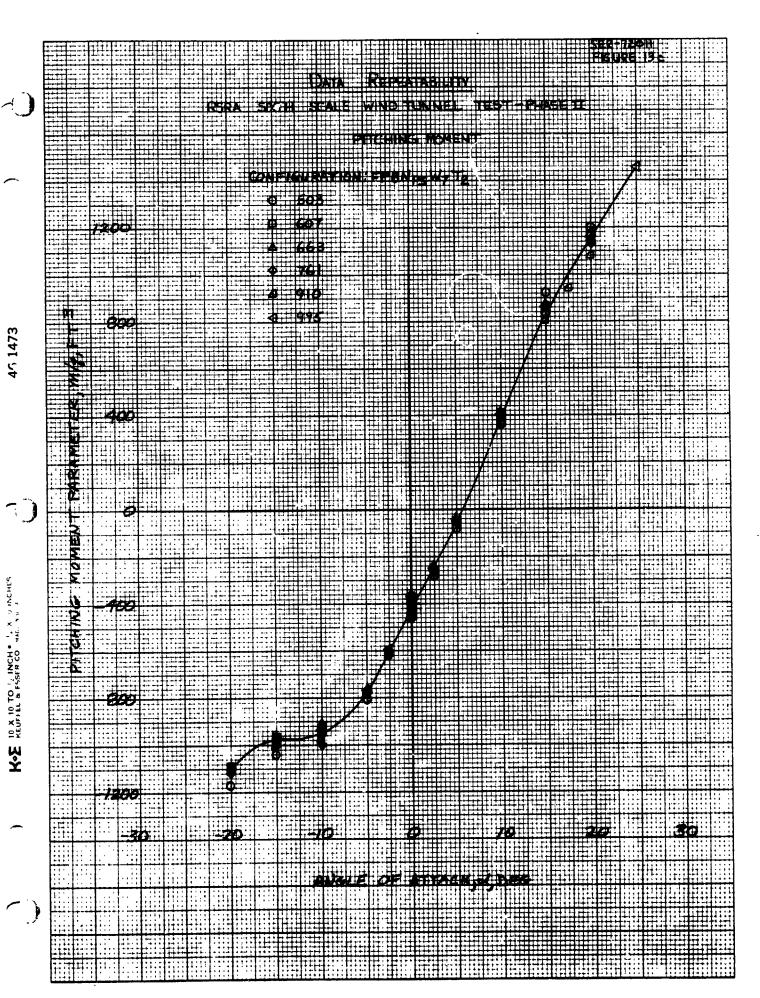
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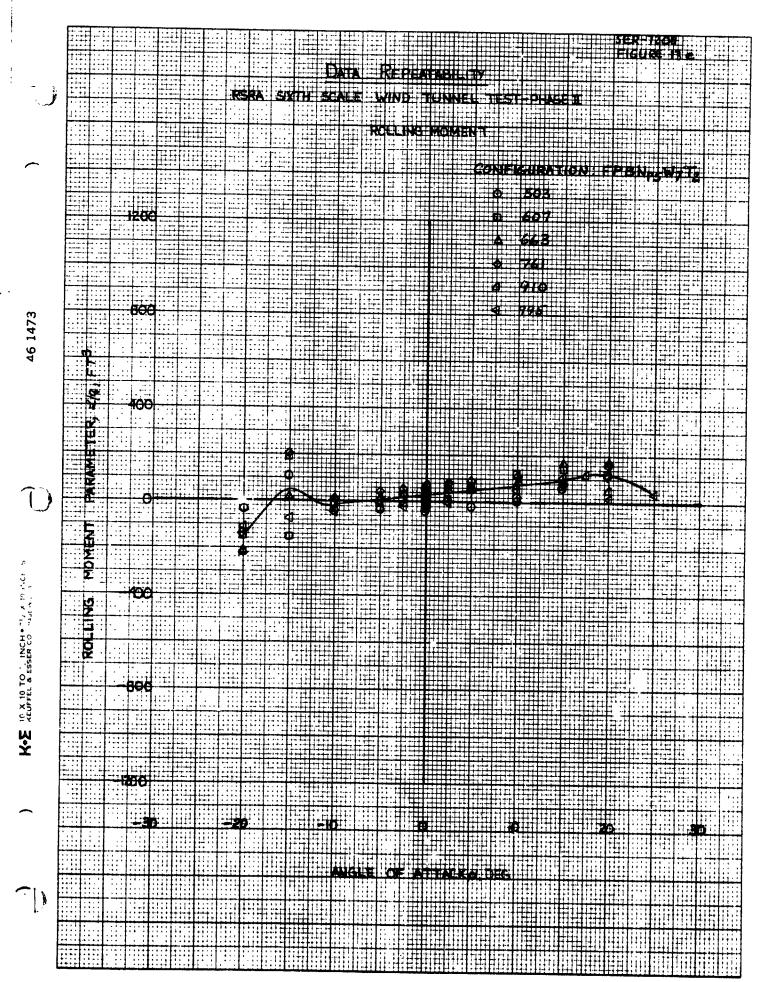
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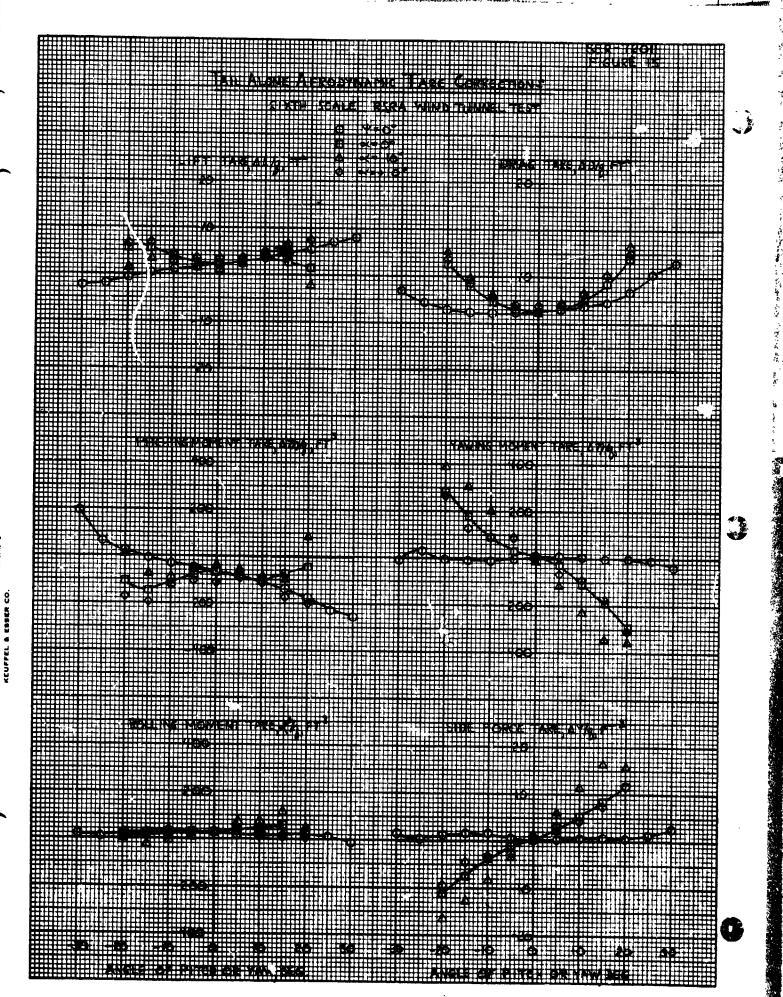
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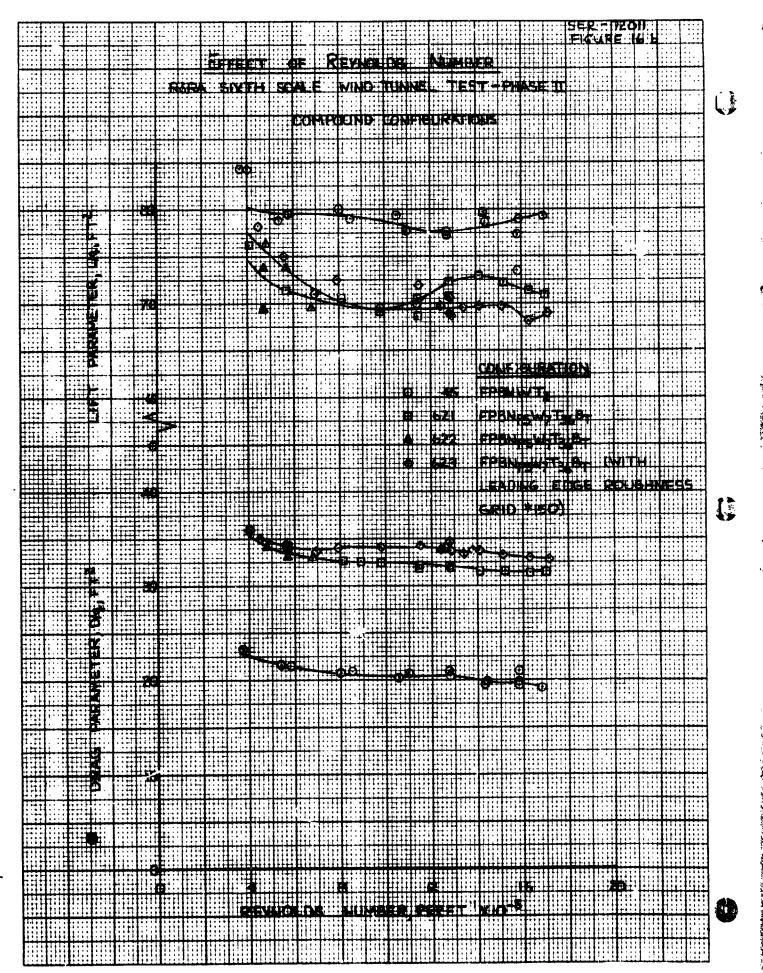
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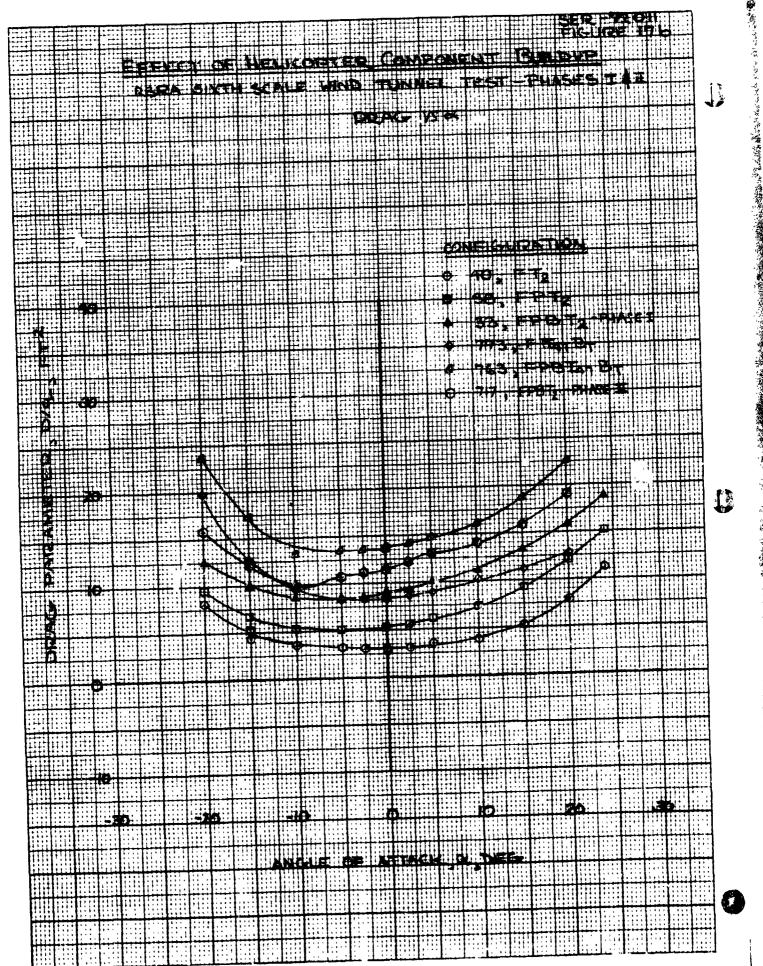
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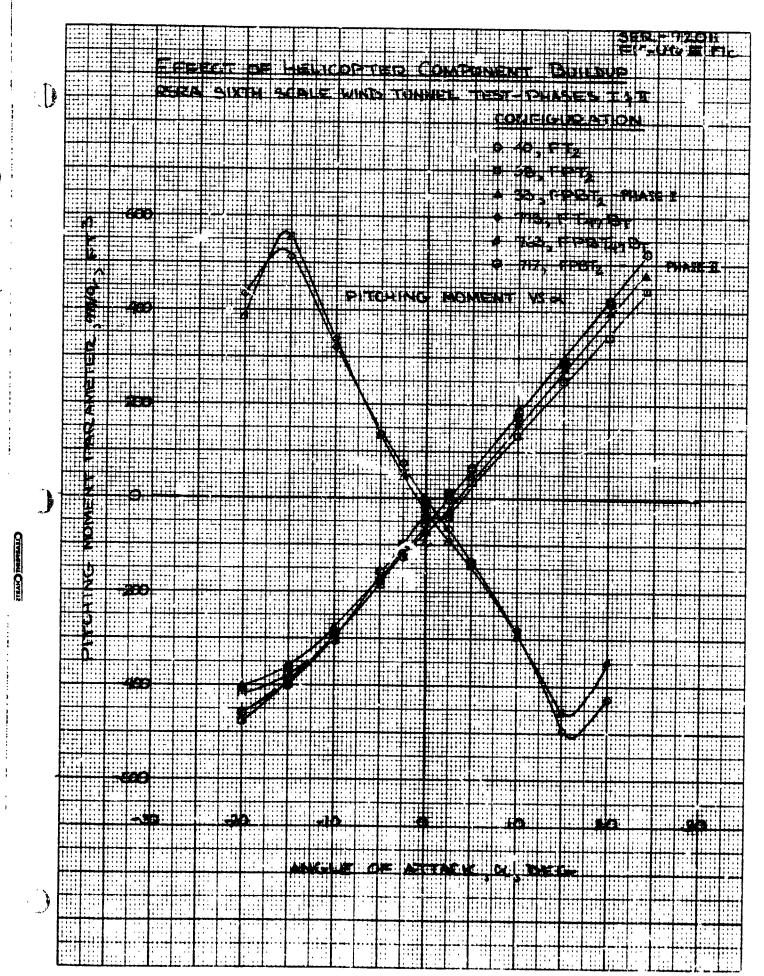


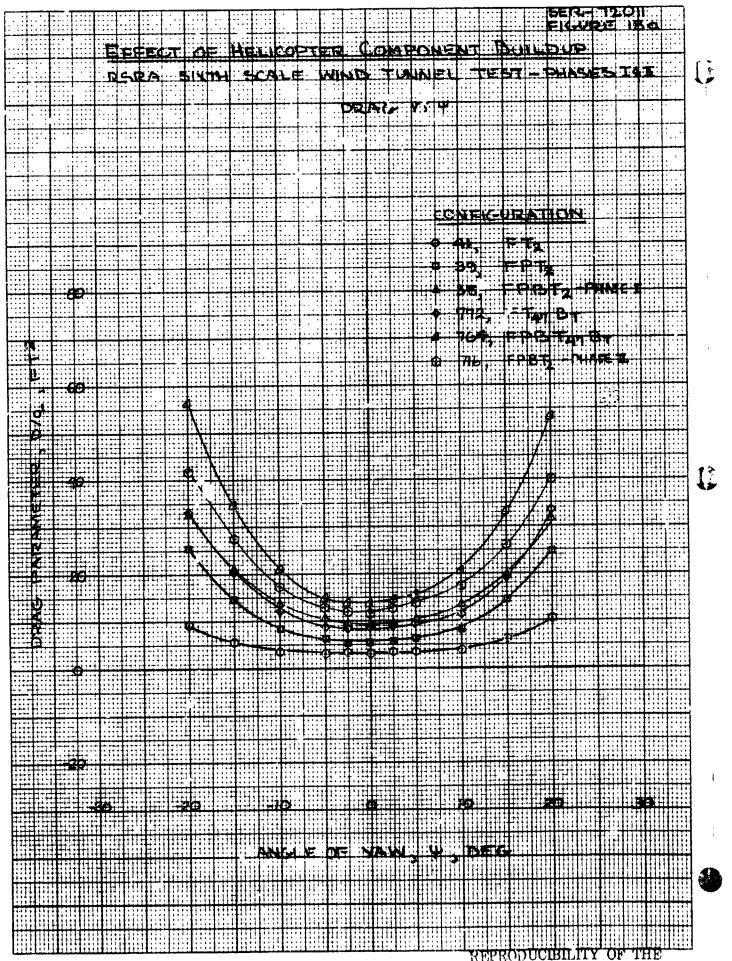
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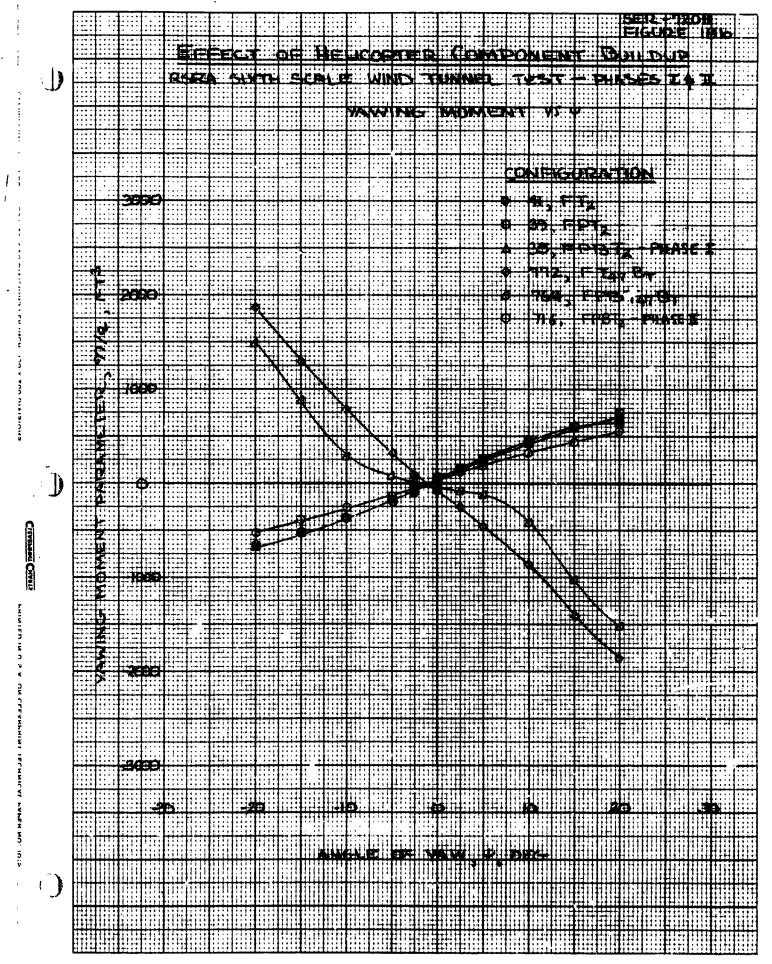
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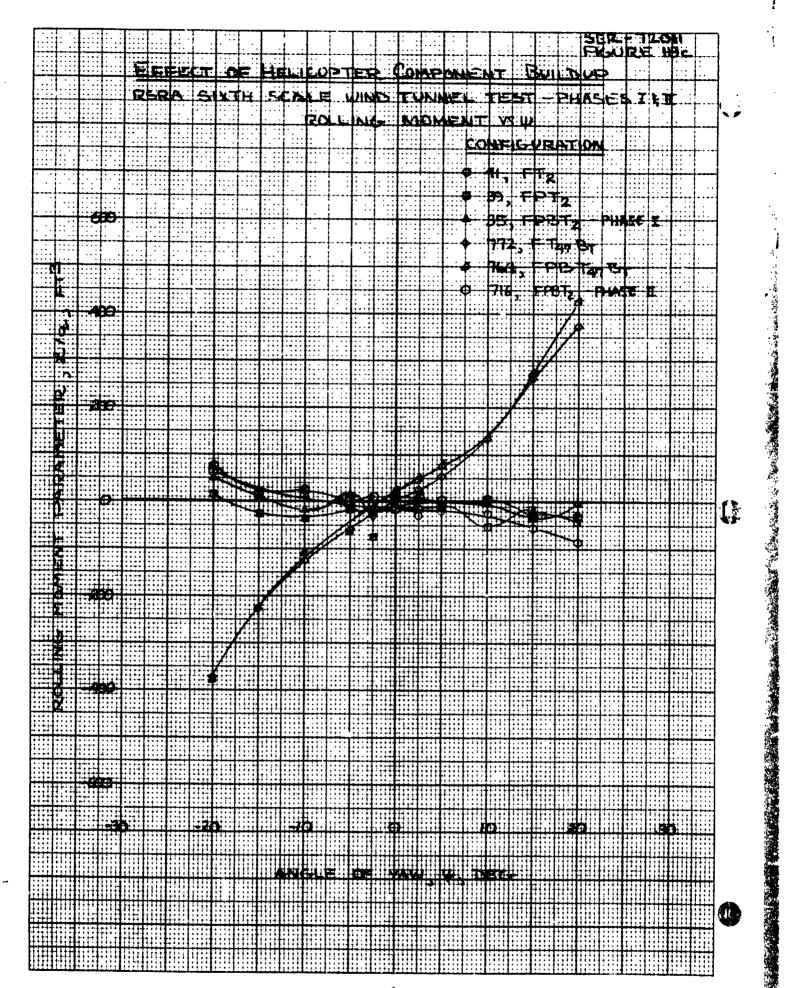




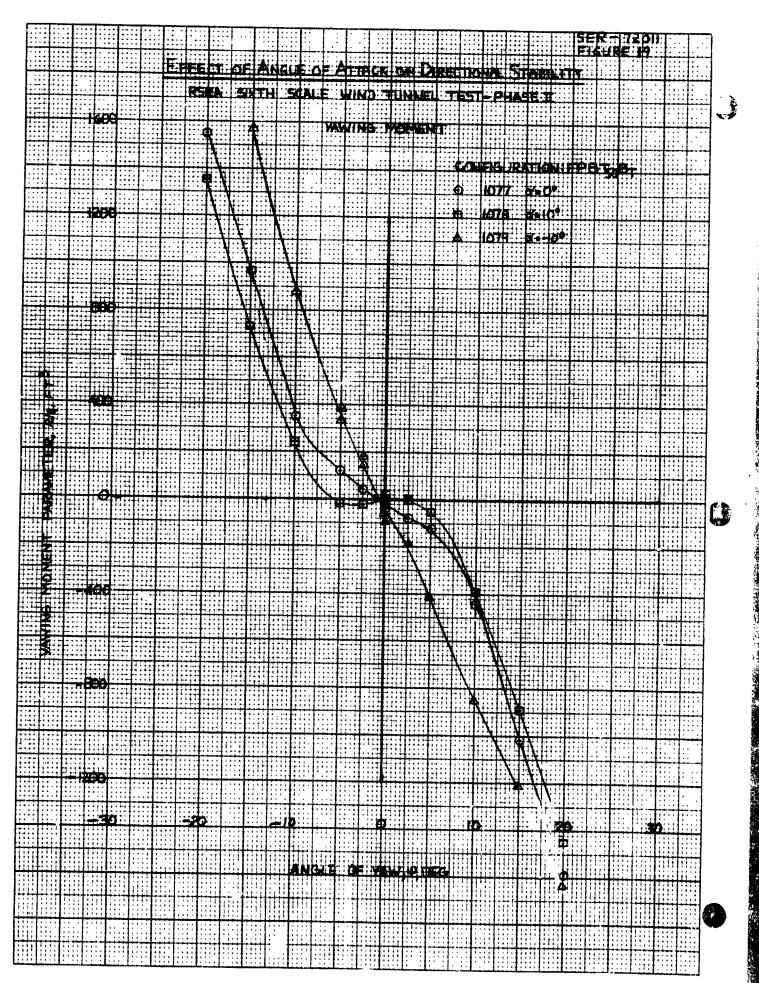


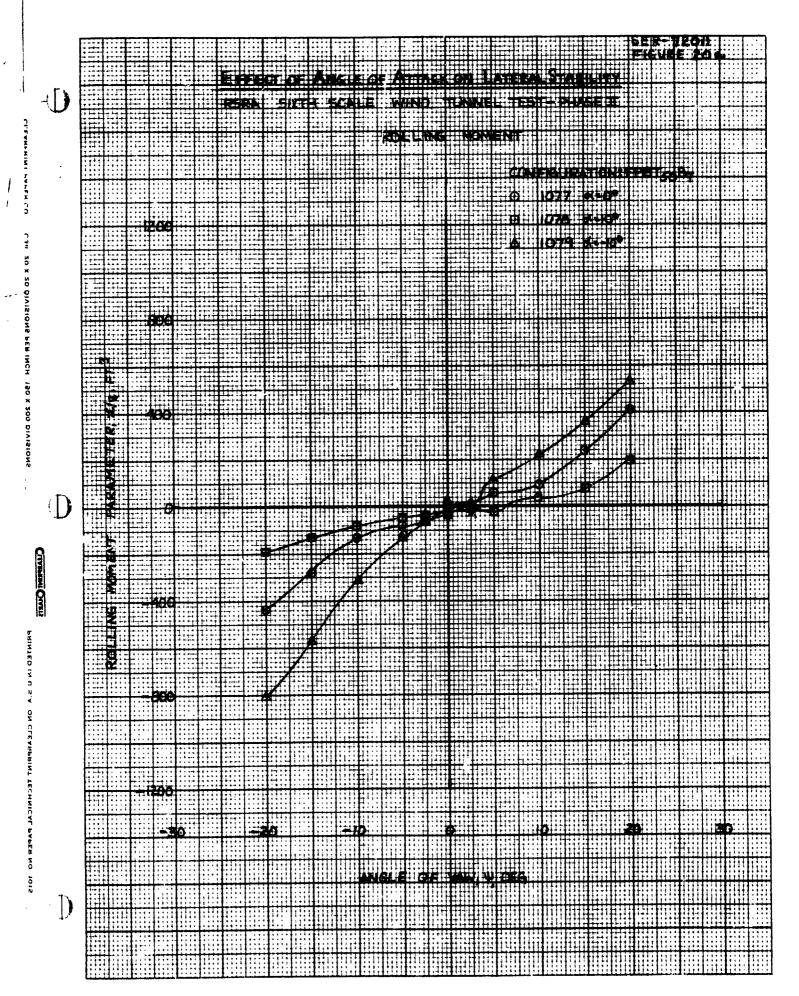
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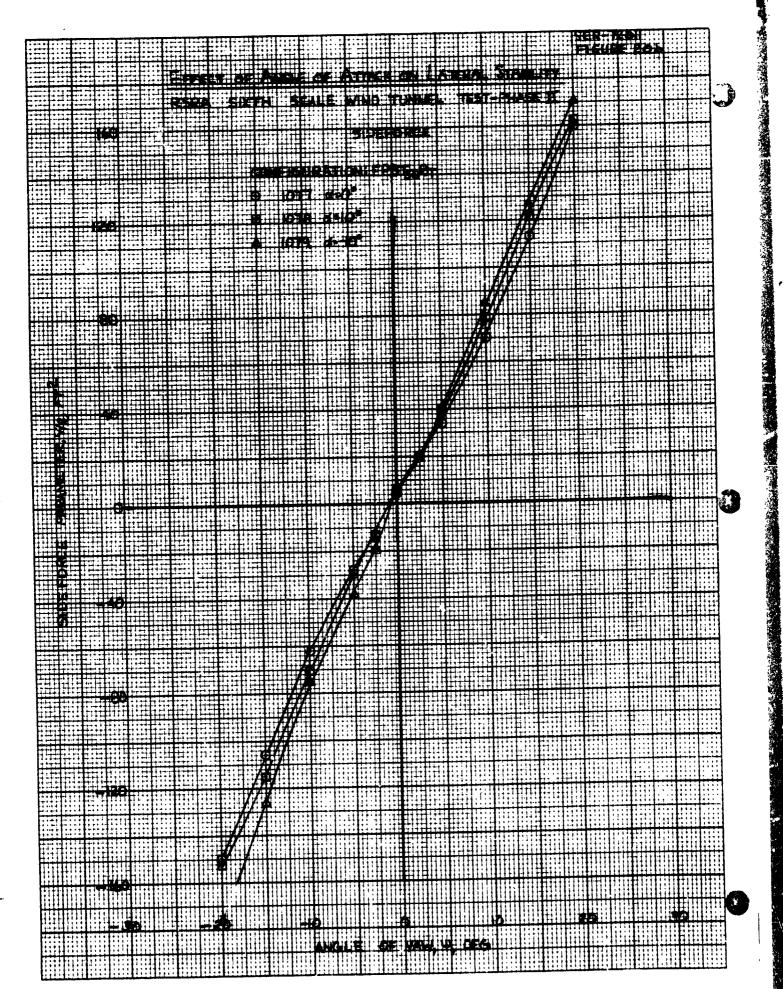




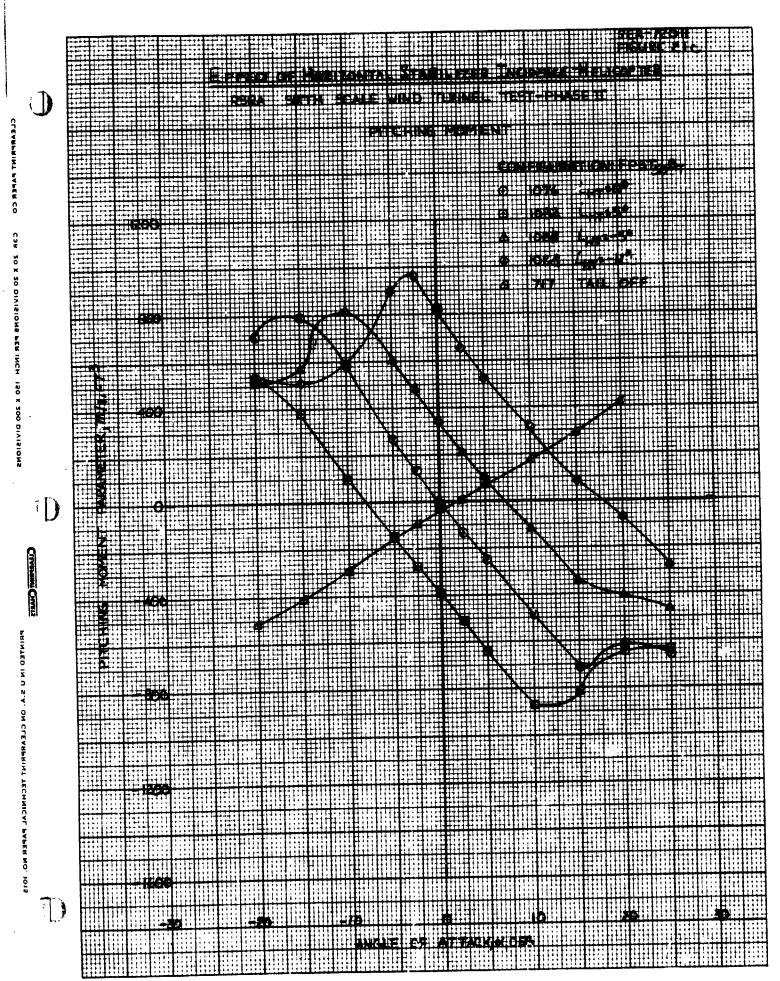
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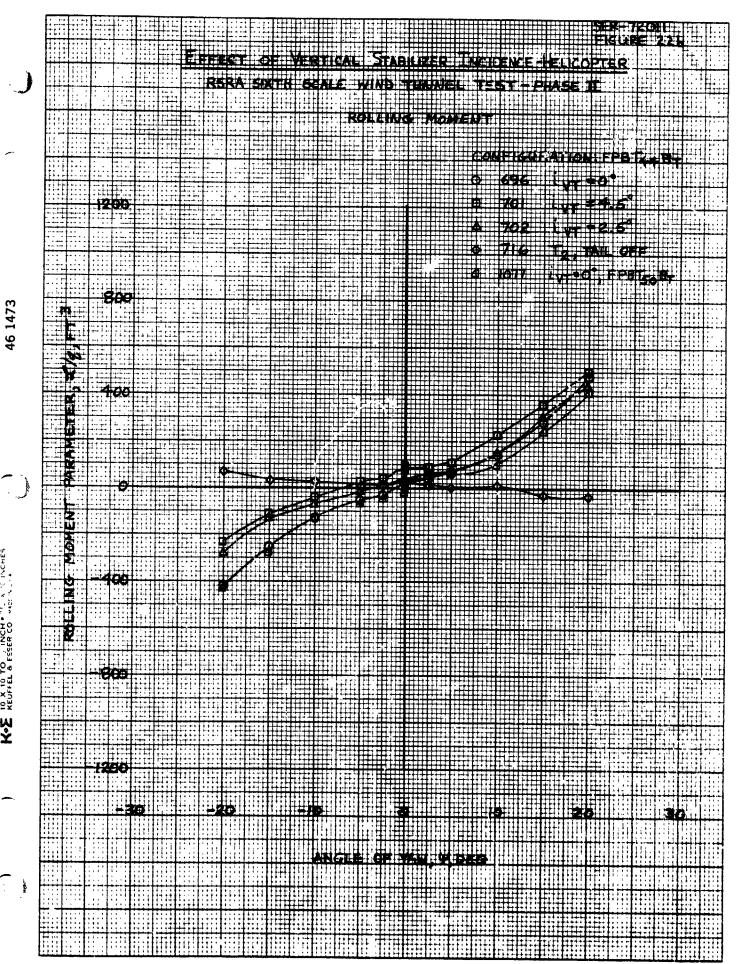




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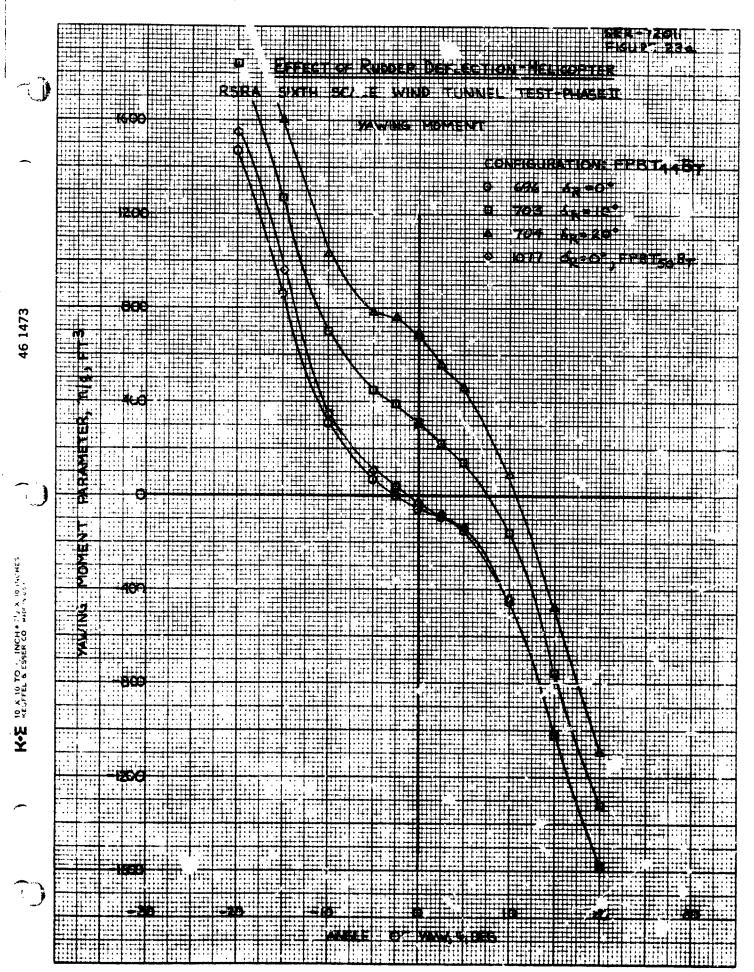
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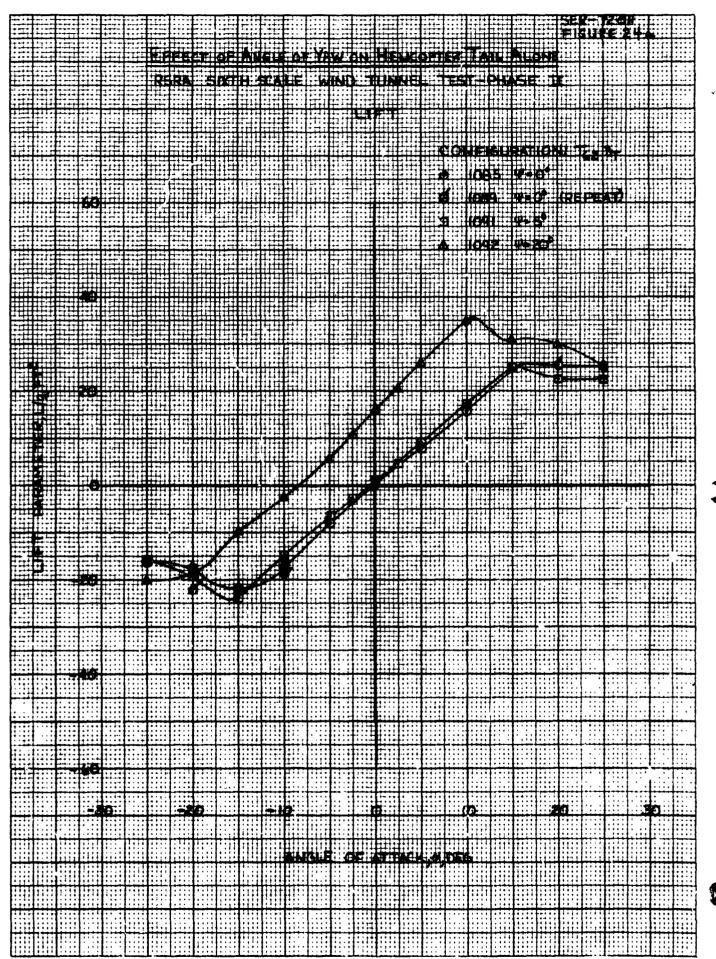
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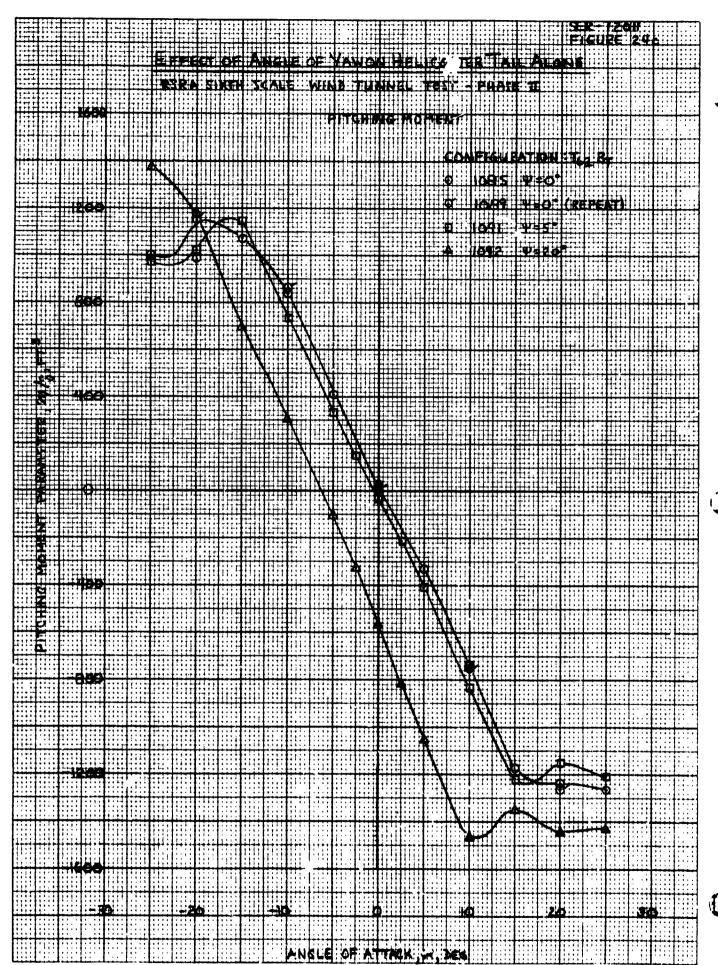
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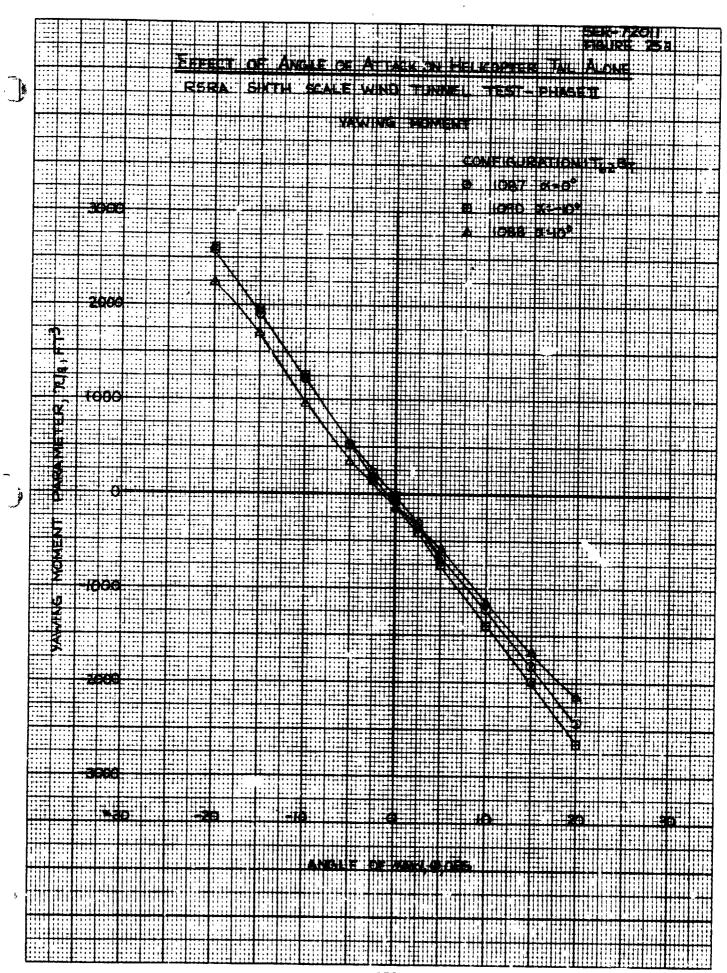
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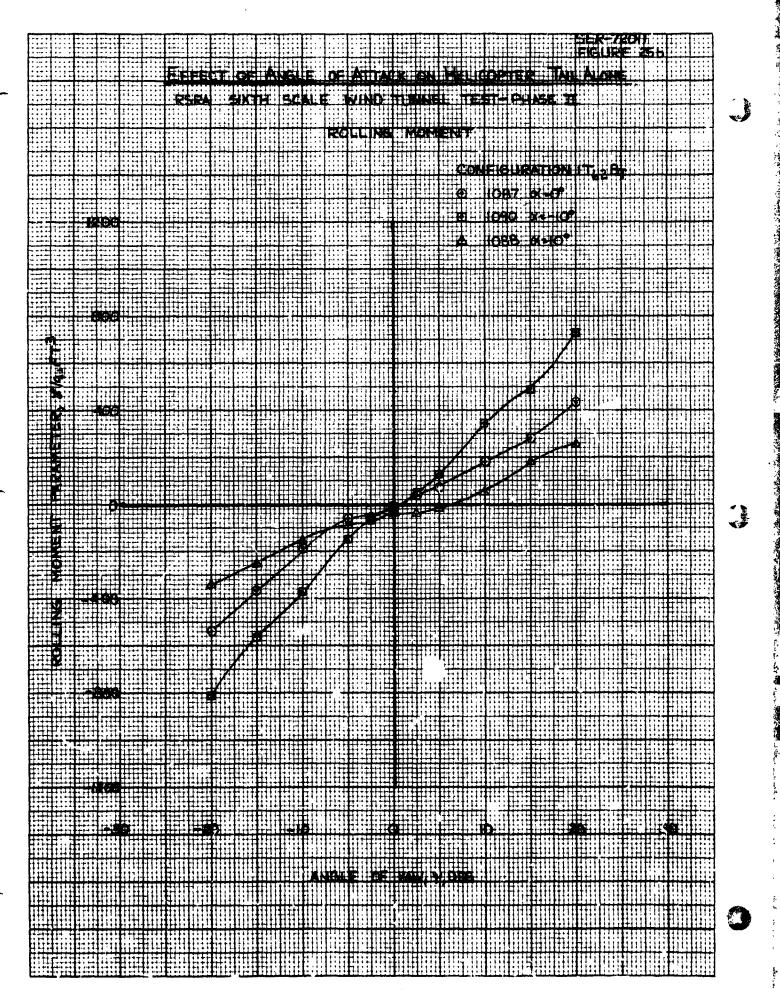
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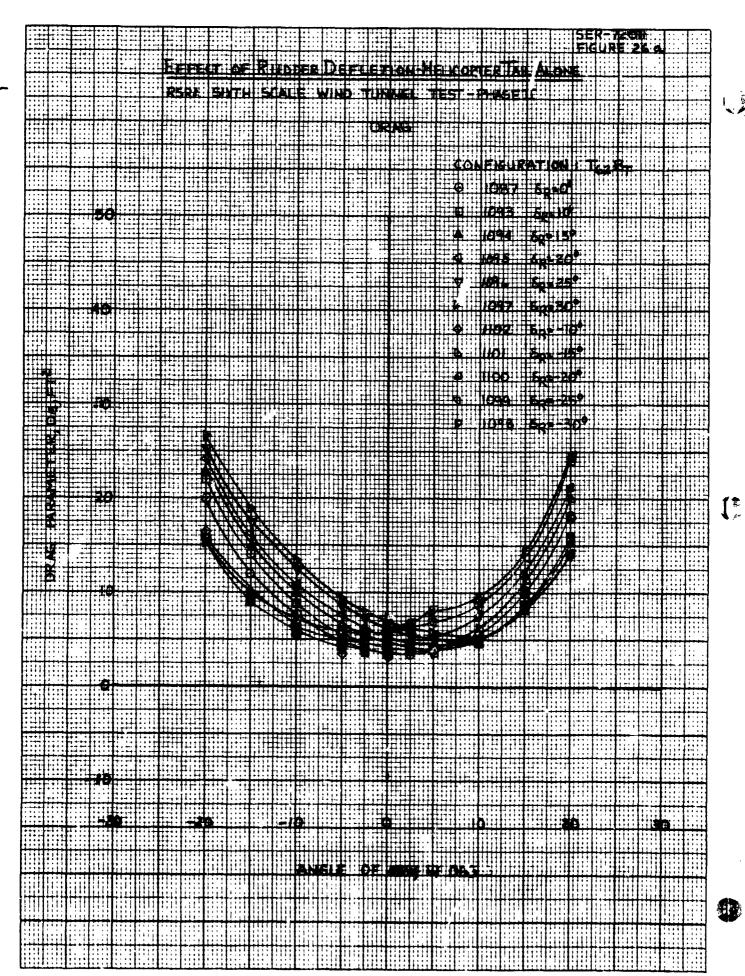


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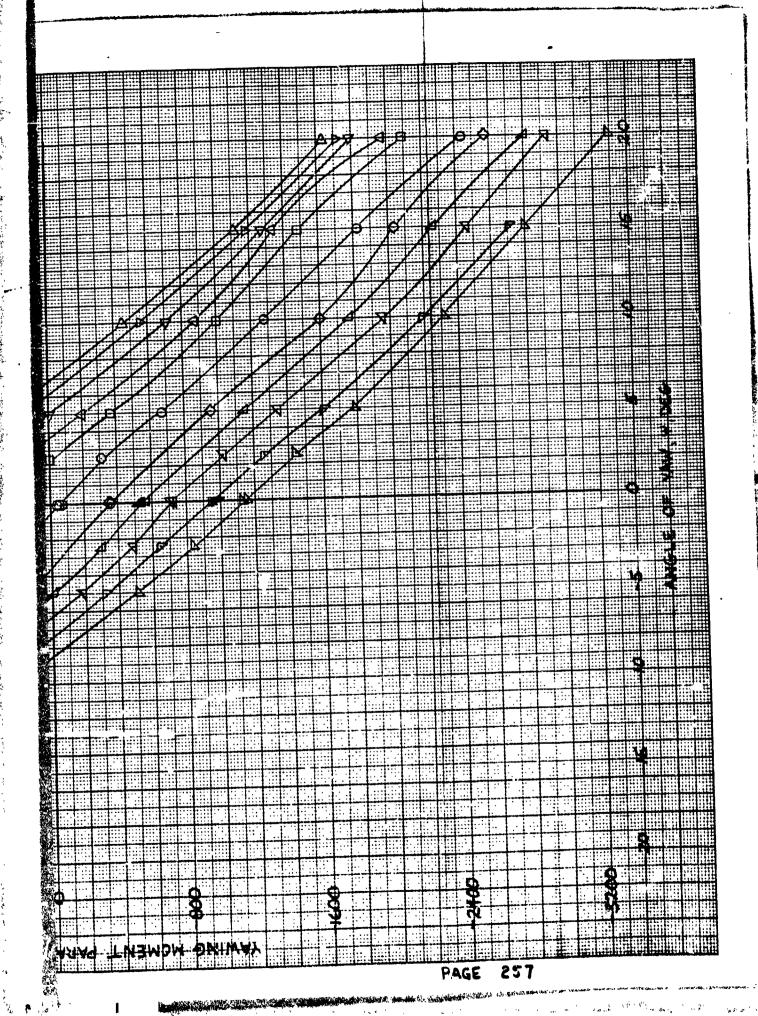


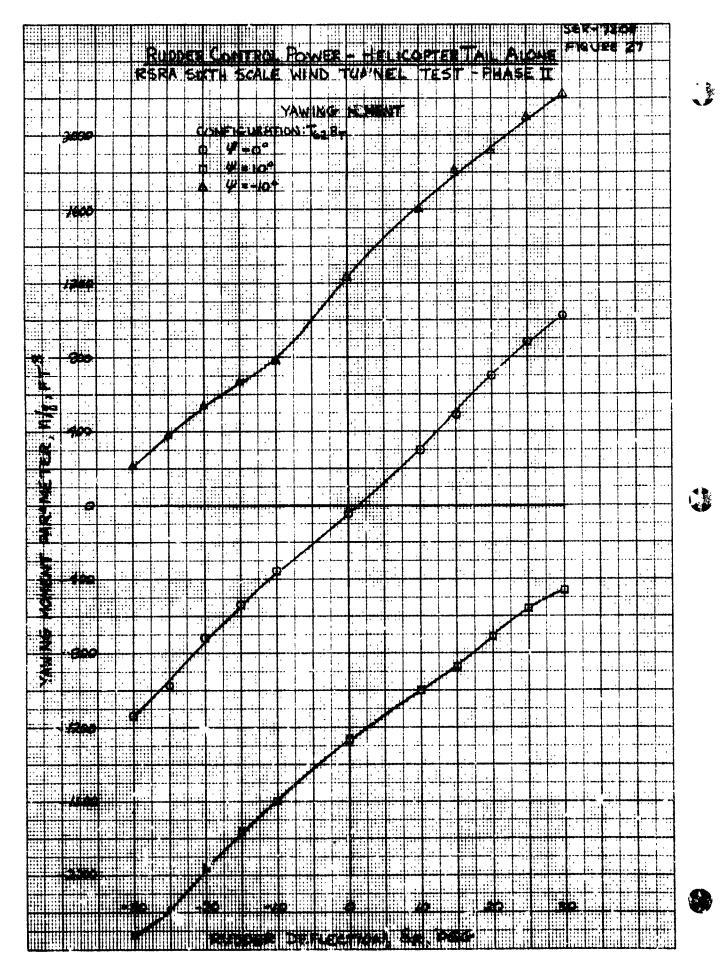




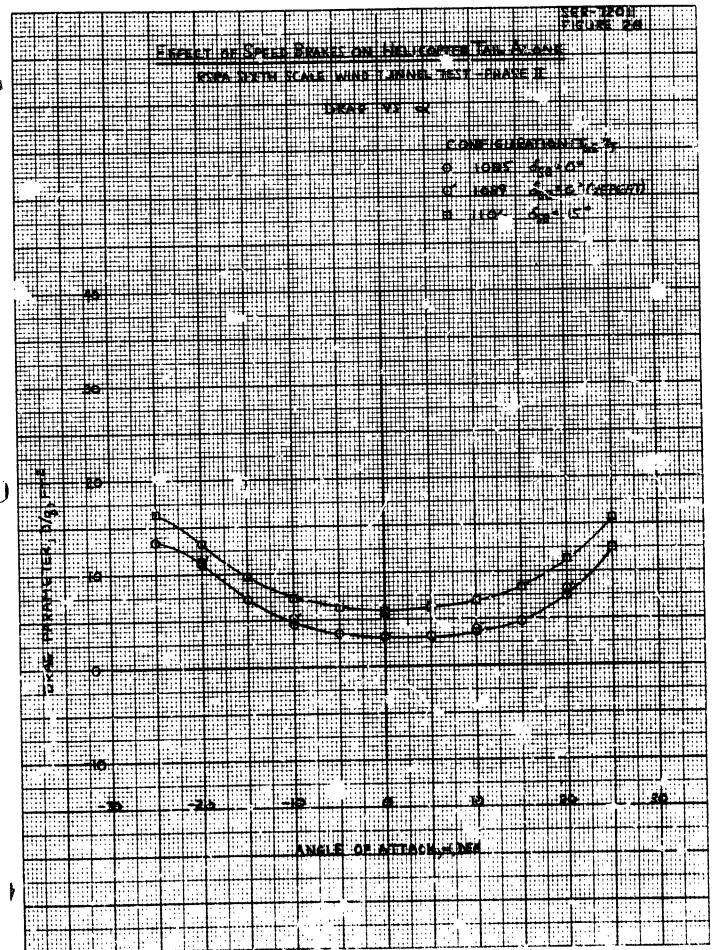


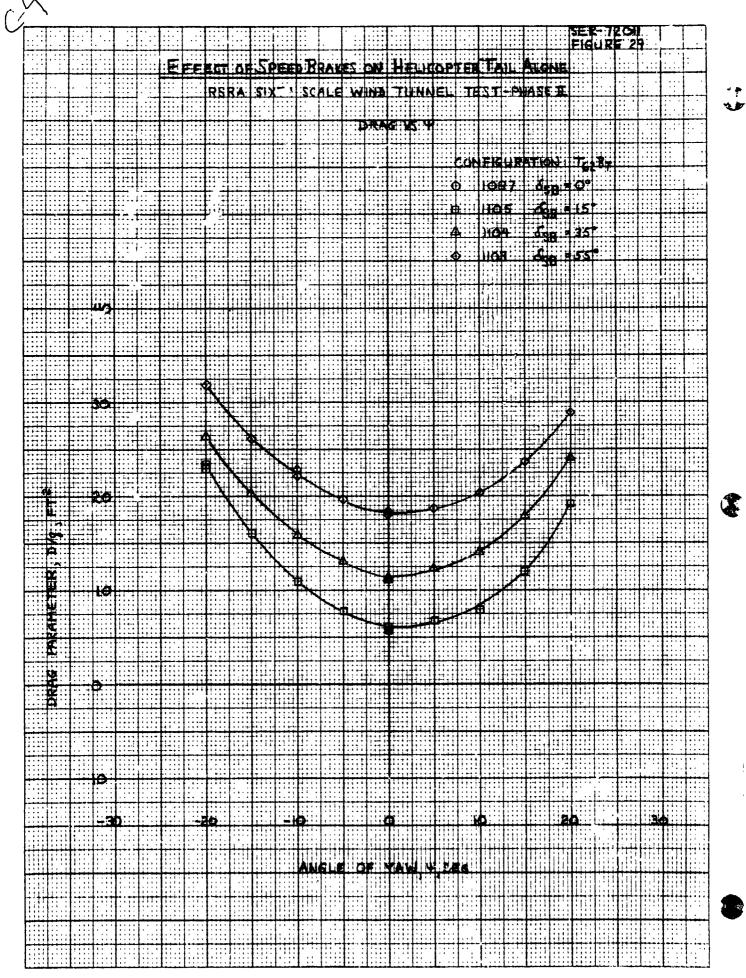
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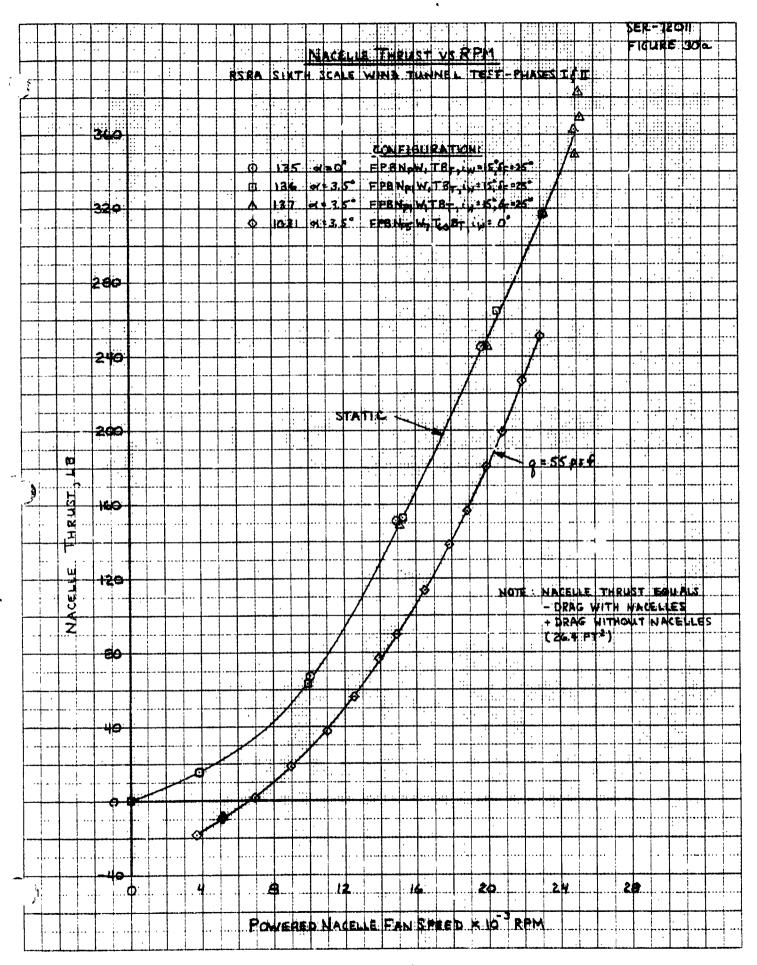


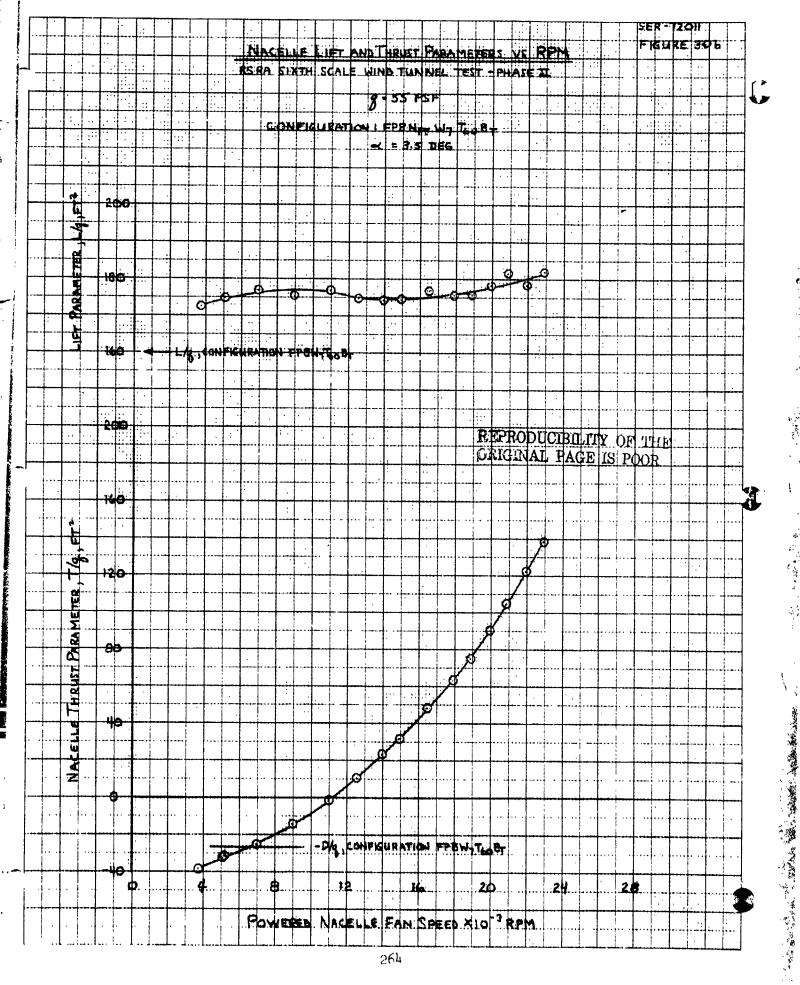


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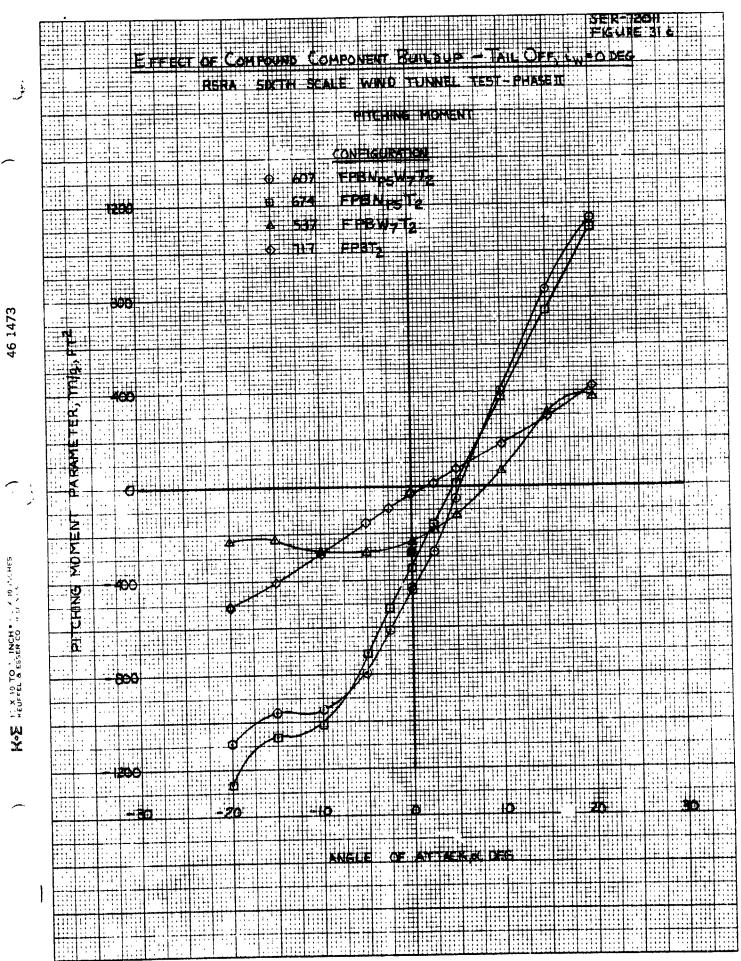


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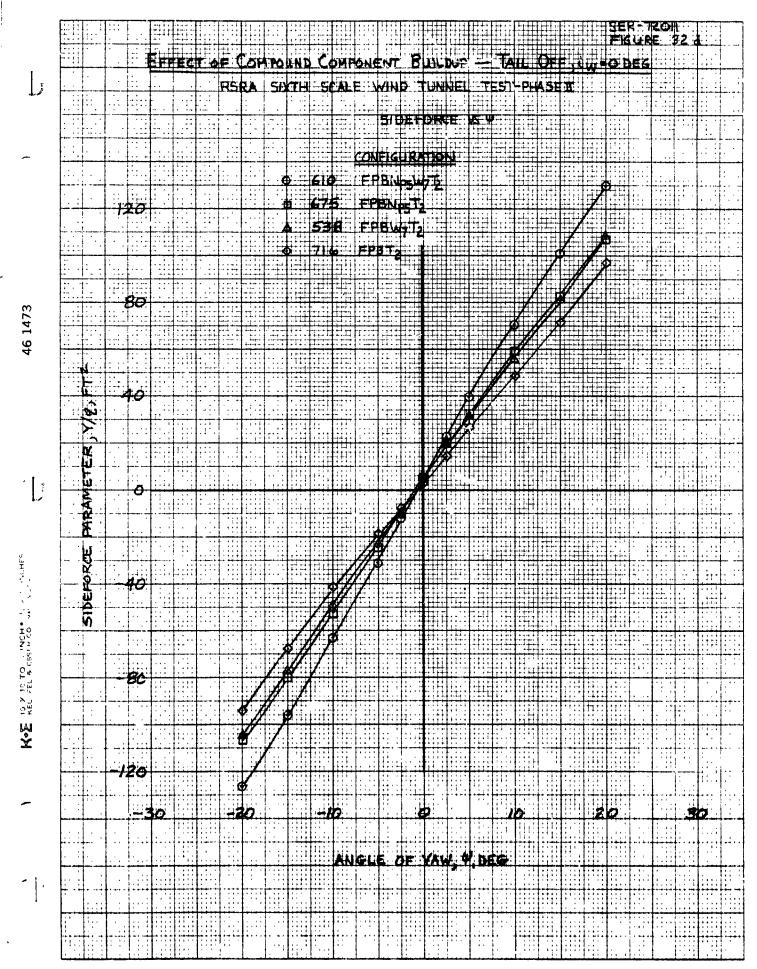
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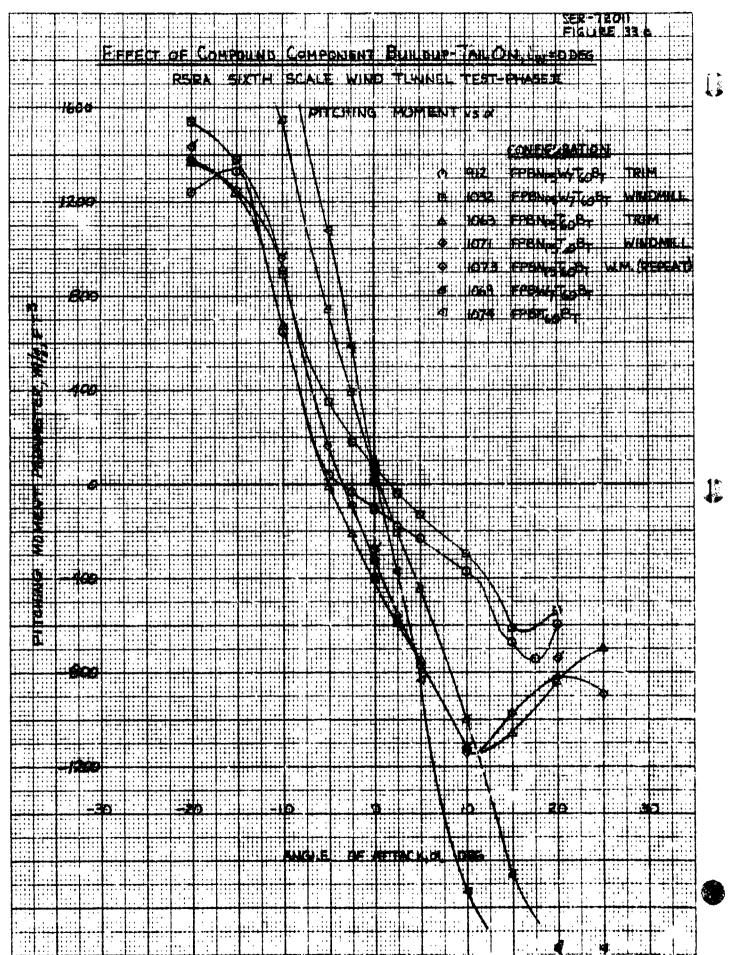


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·二丁、次月清水平等、中山大水水西西州村 家 多行事

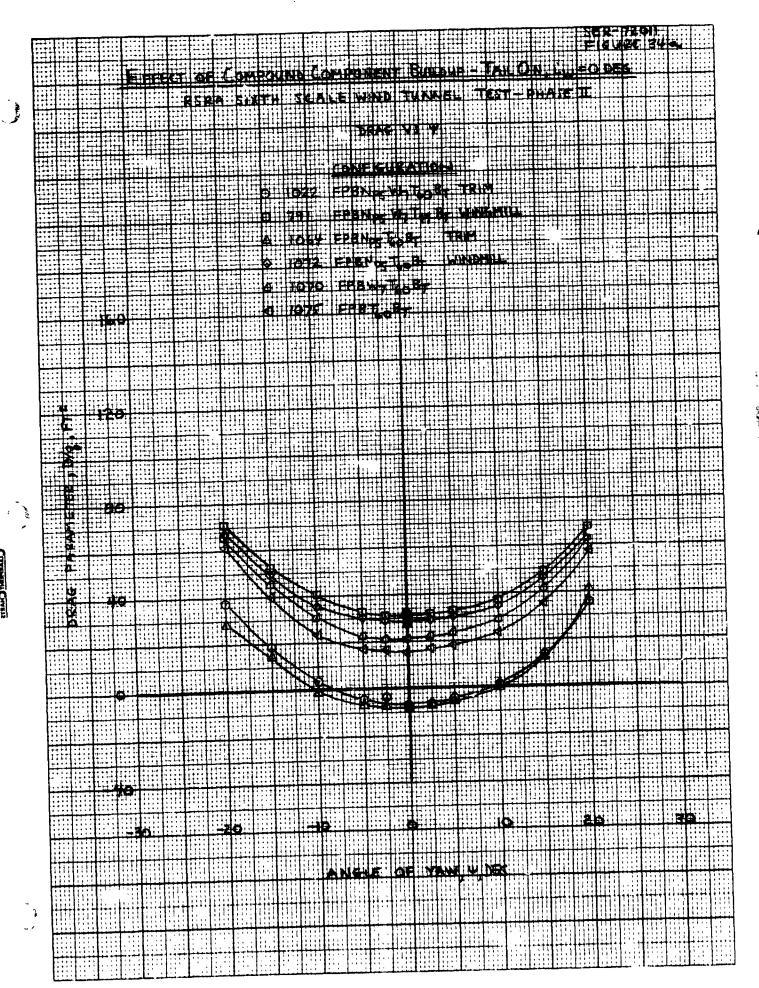
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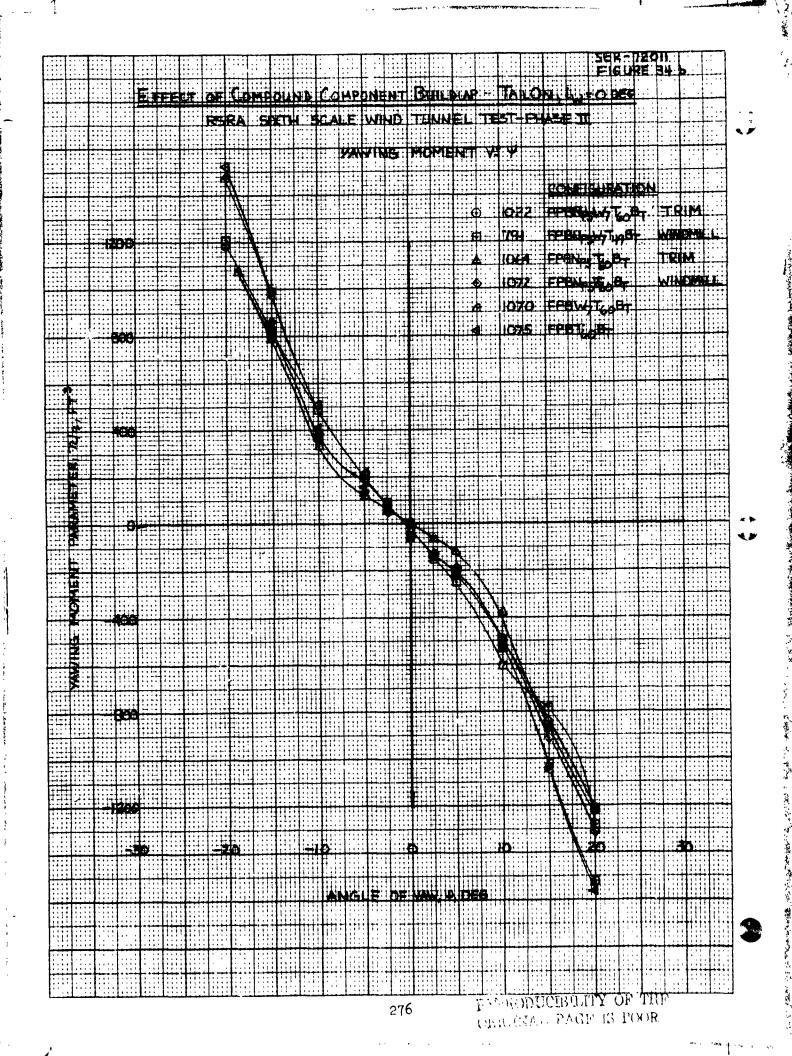
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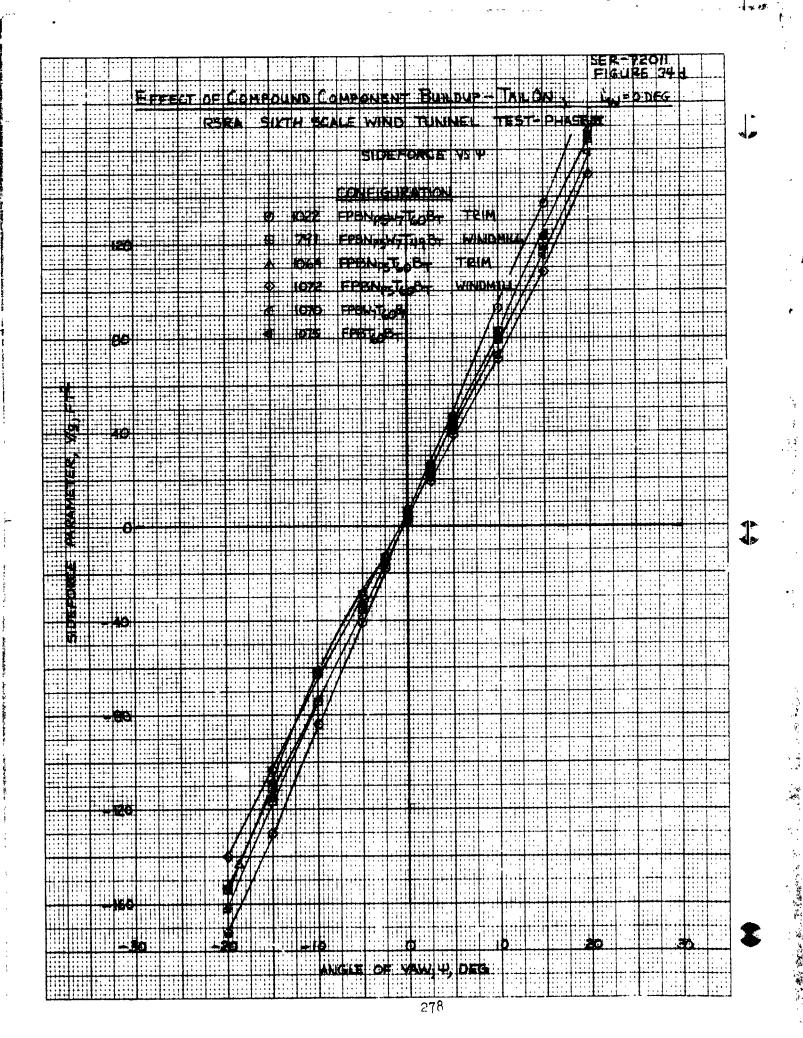
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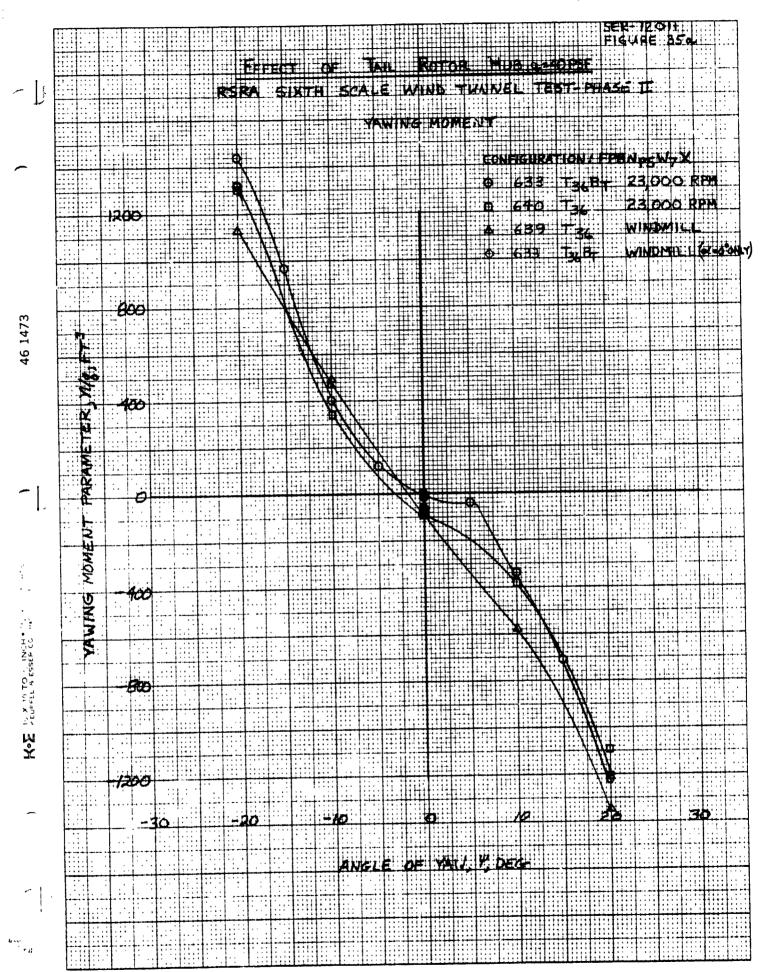
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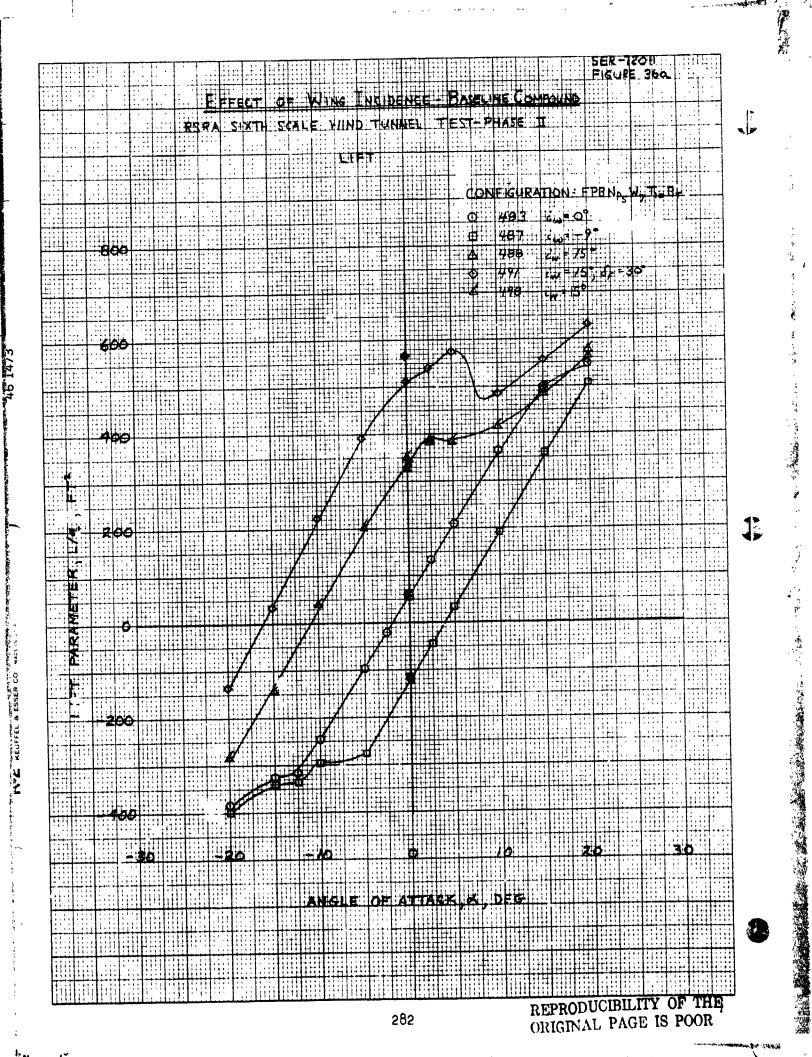
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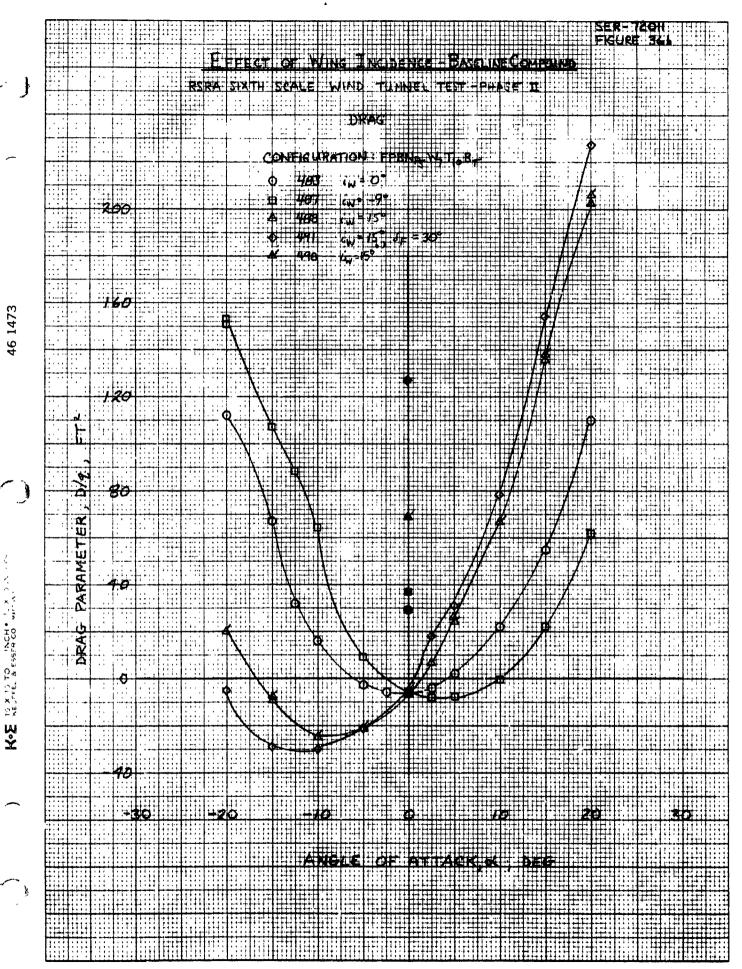
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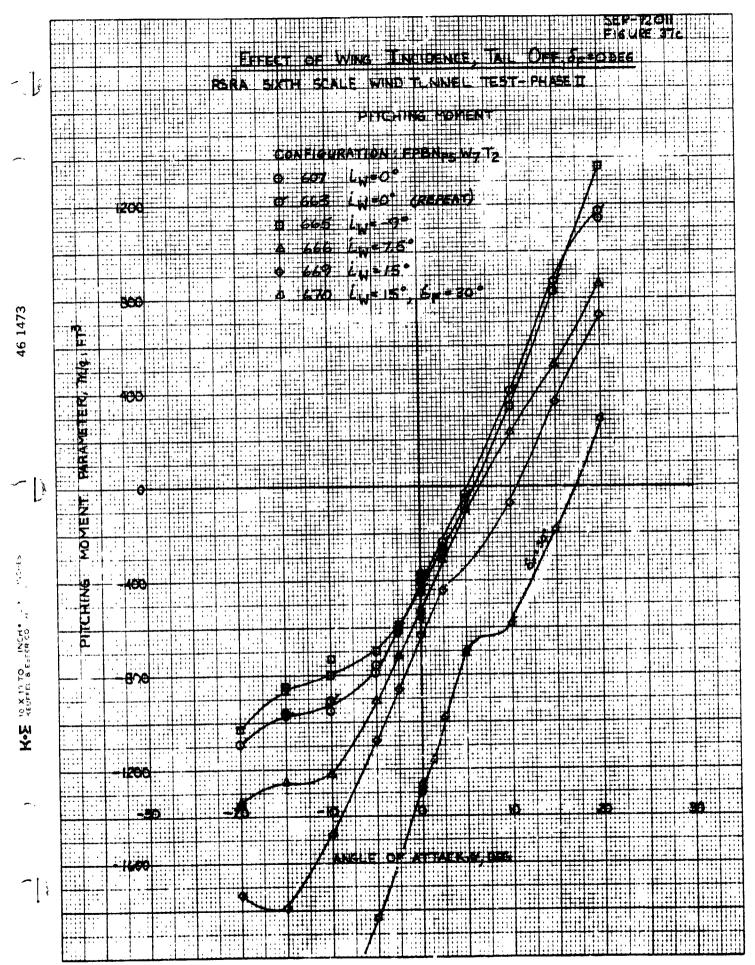
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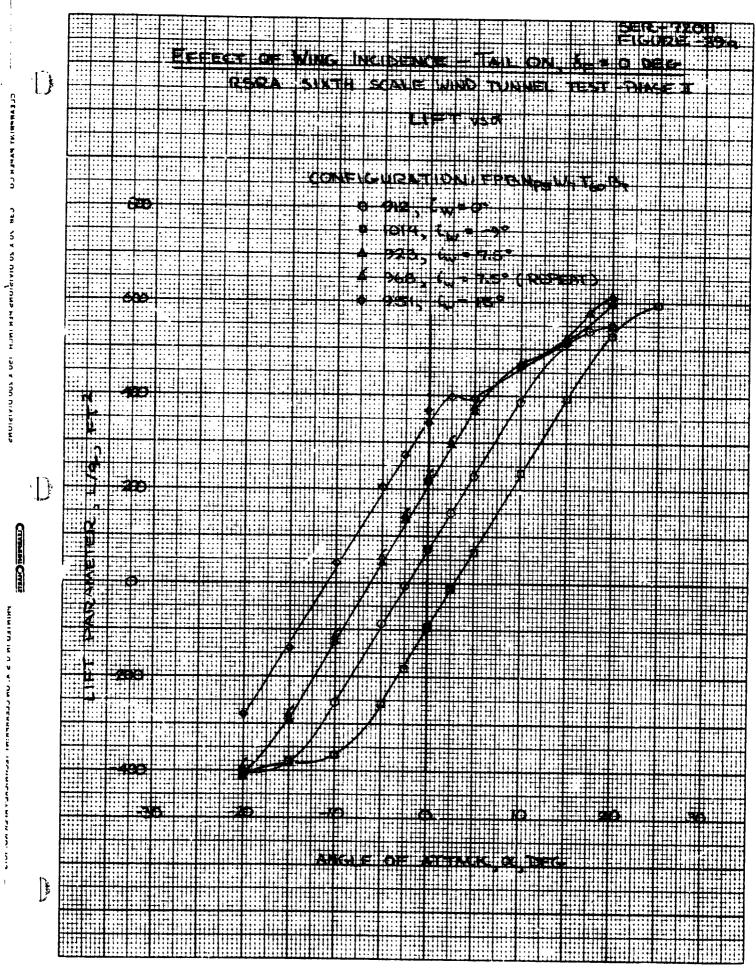
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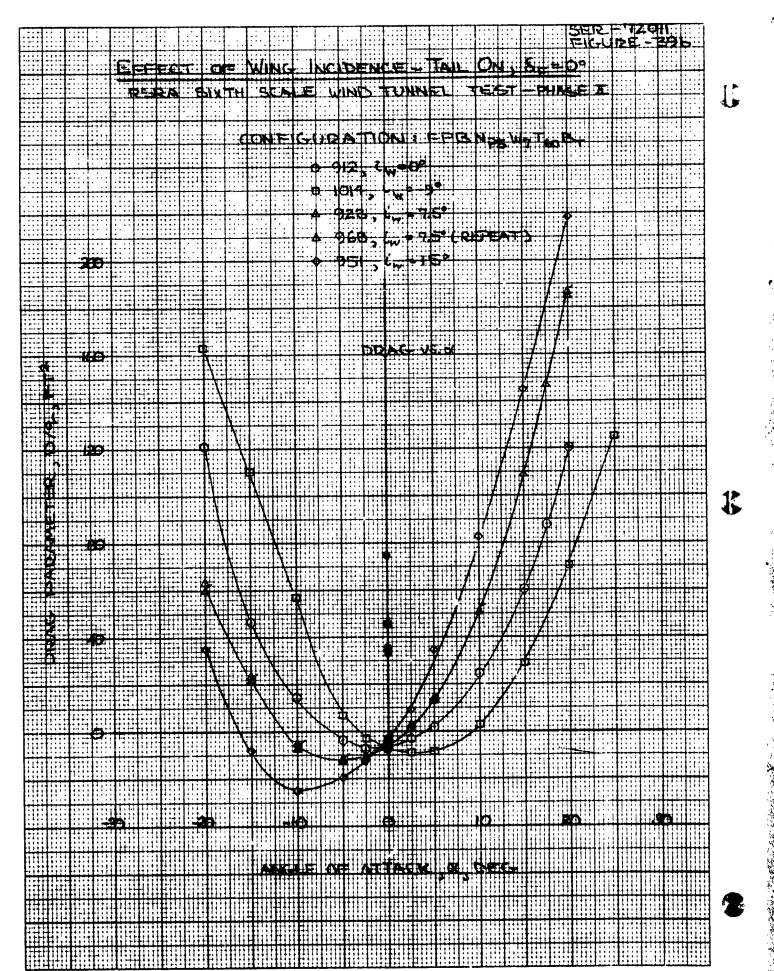


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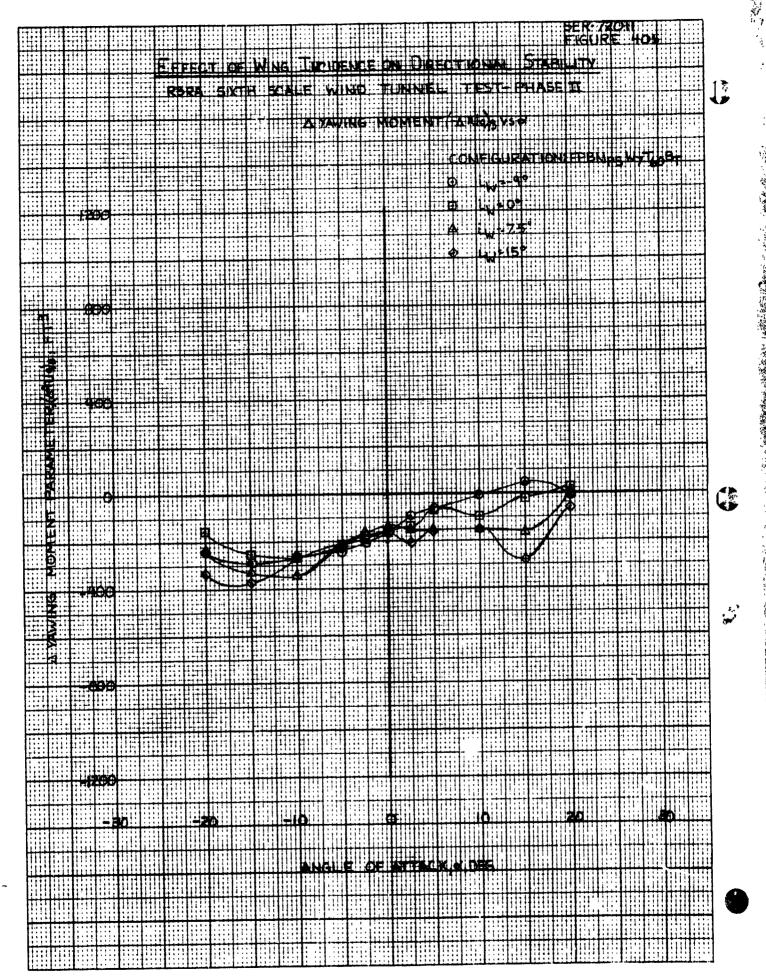
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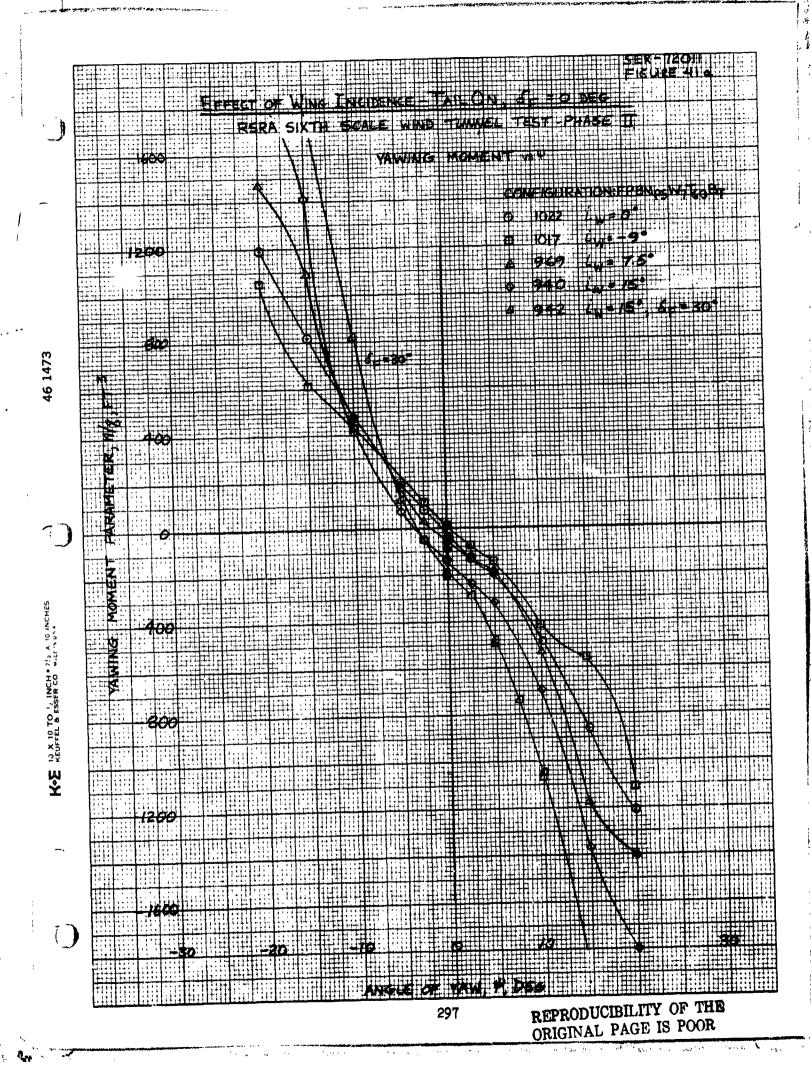


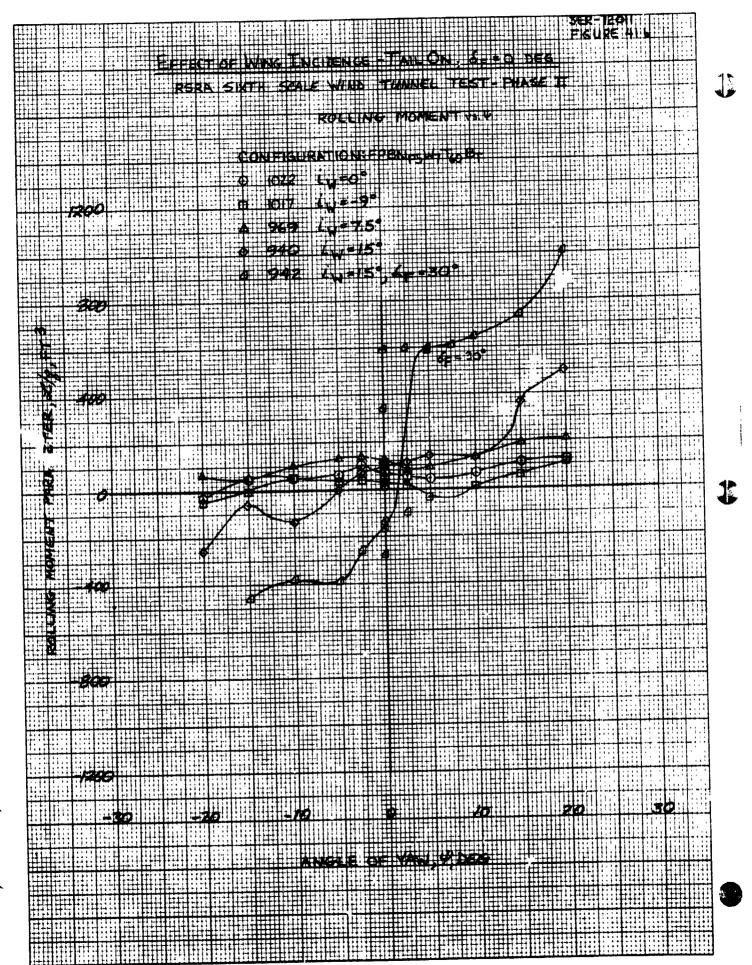


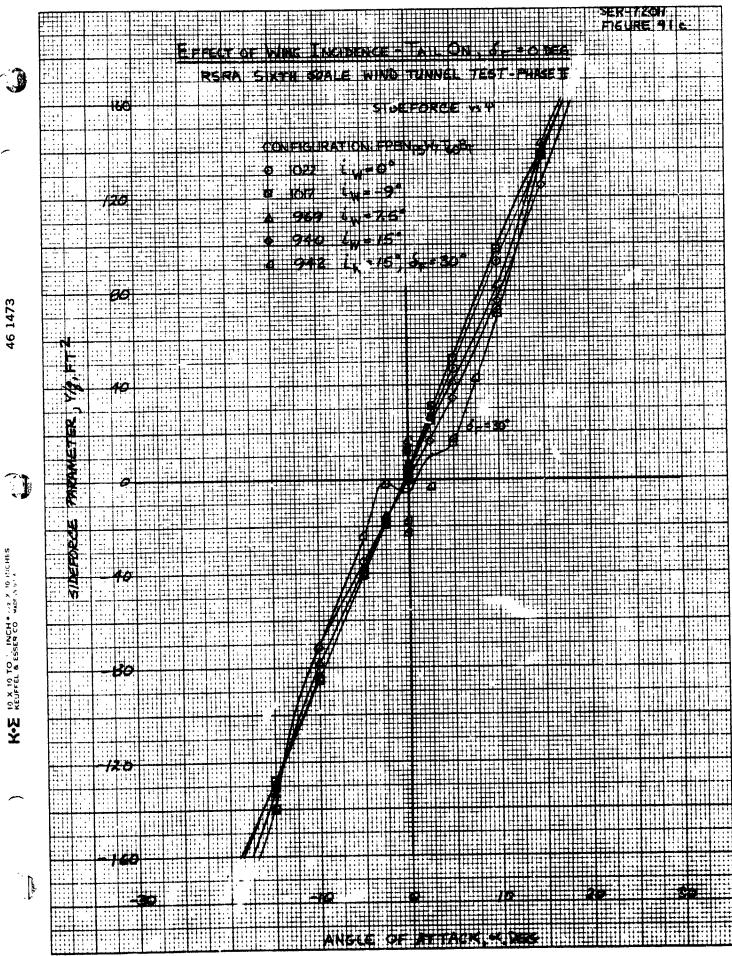
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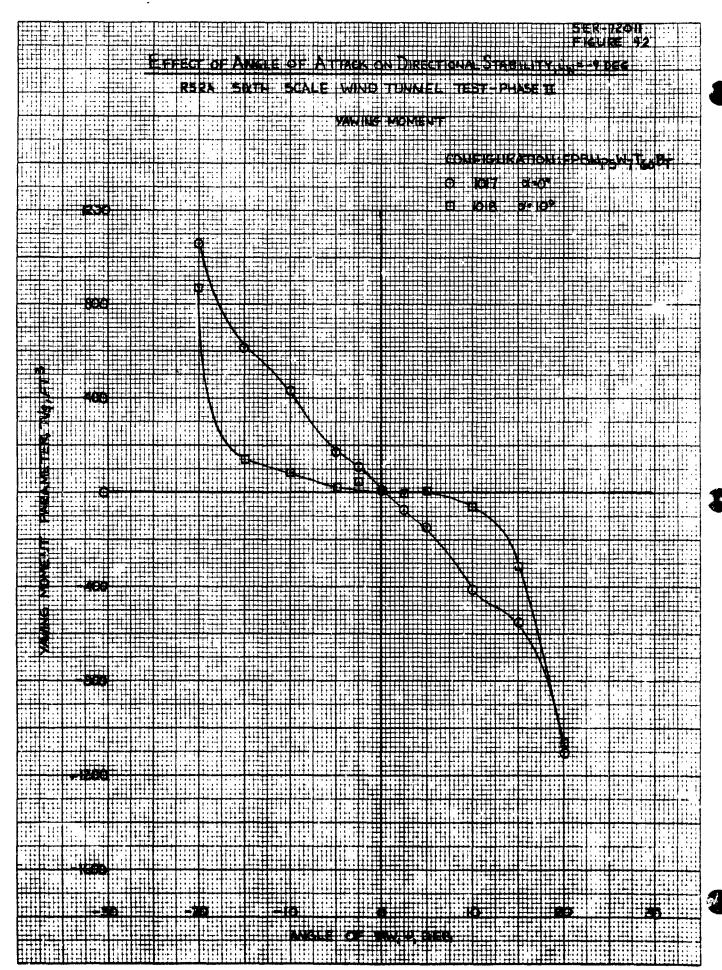
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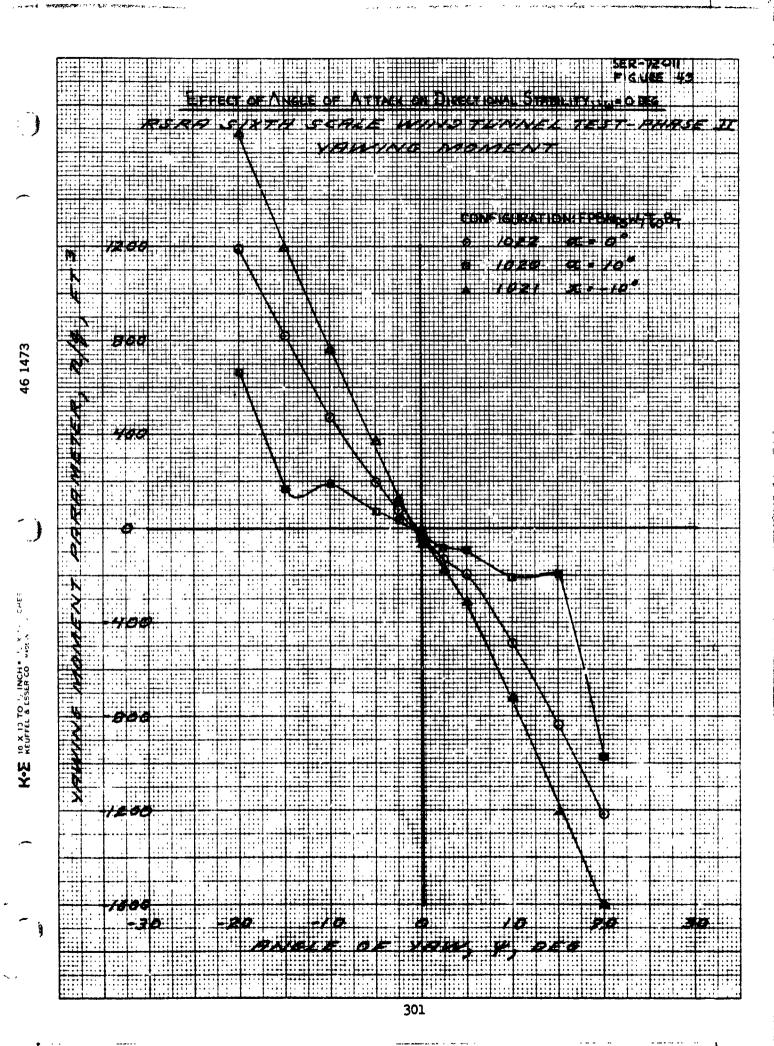


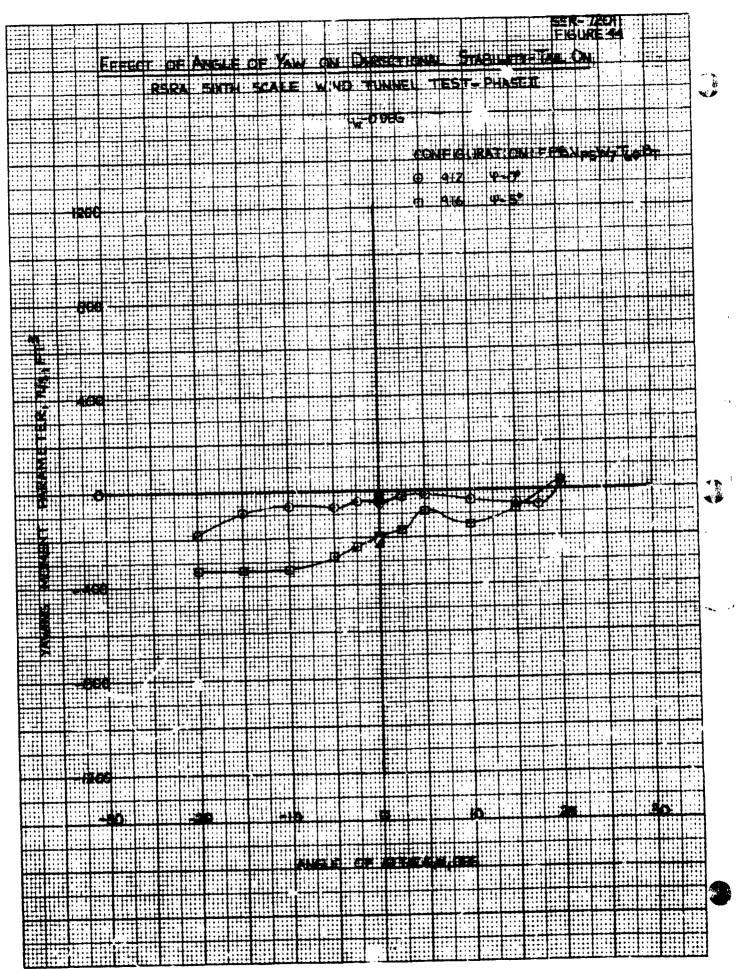






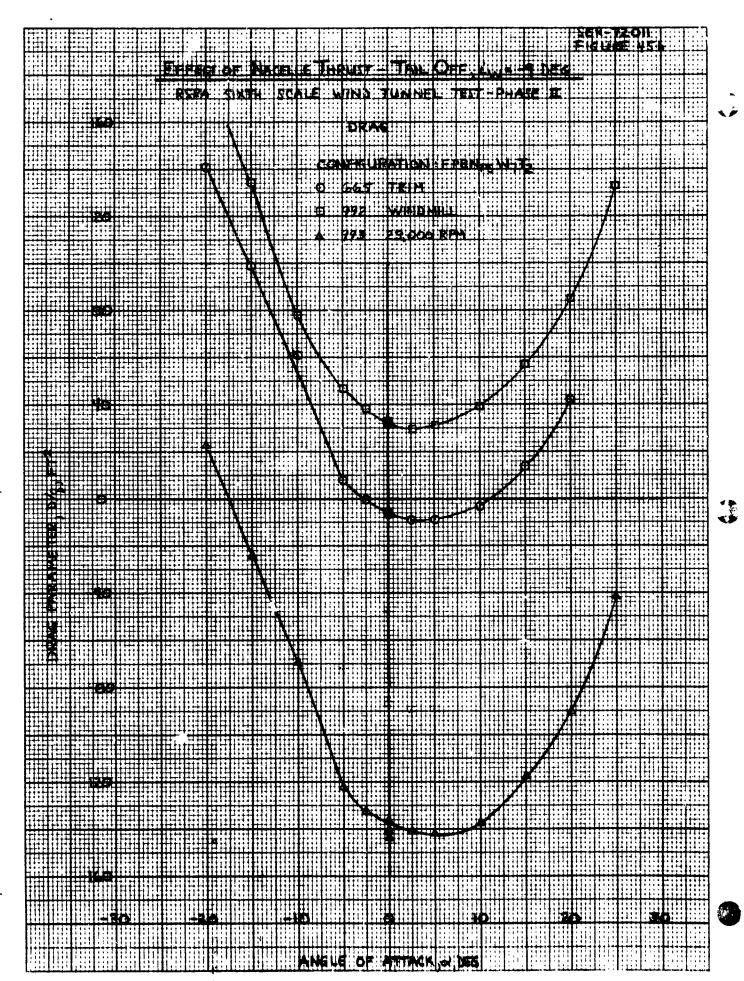


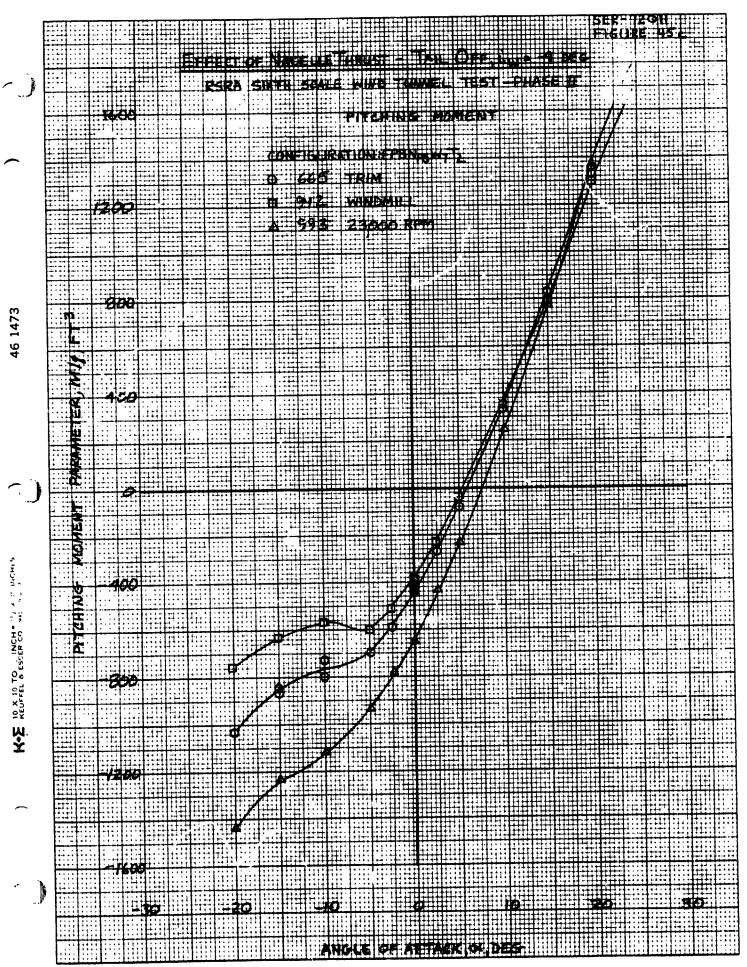




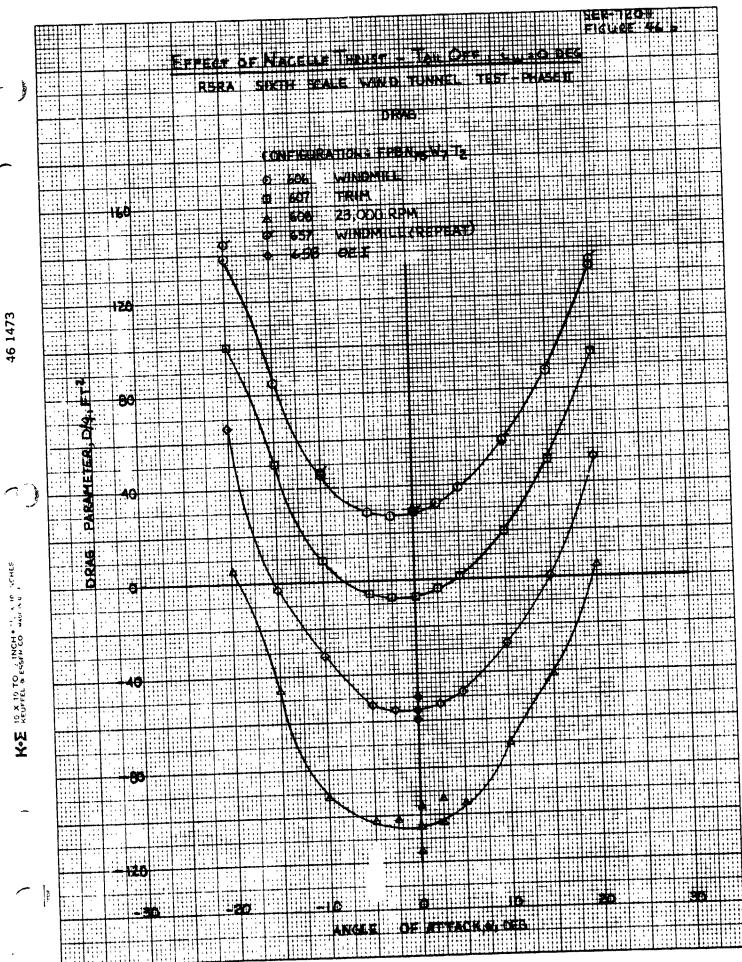
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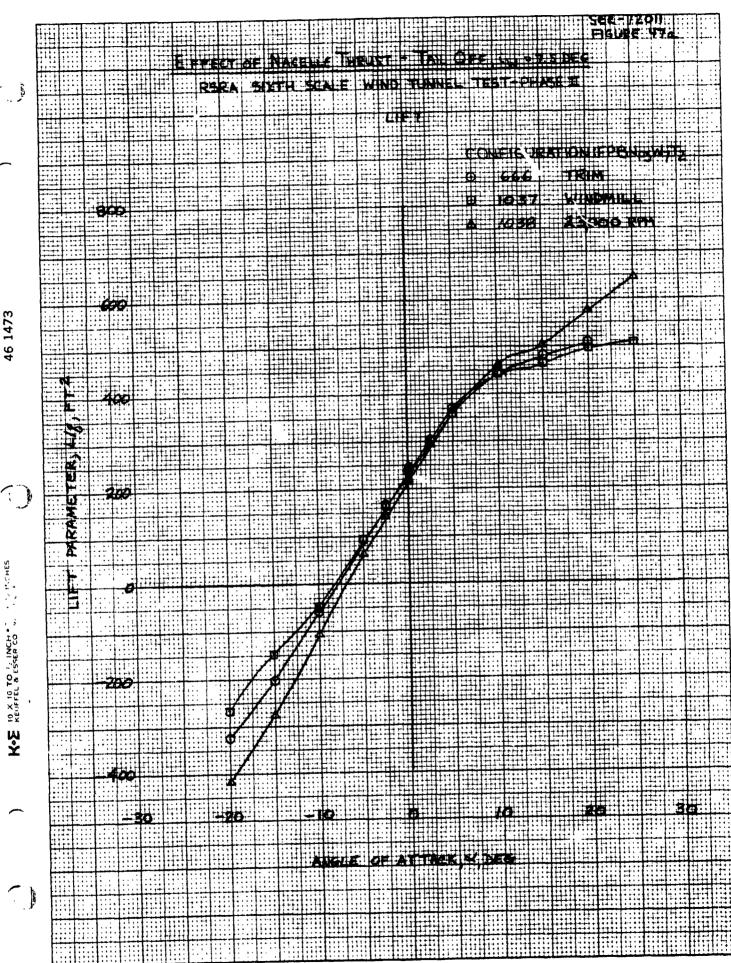
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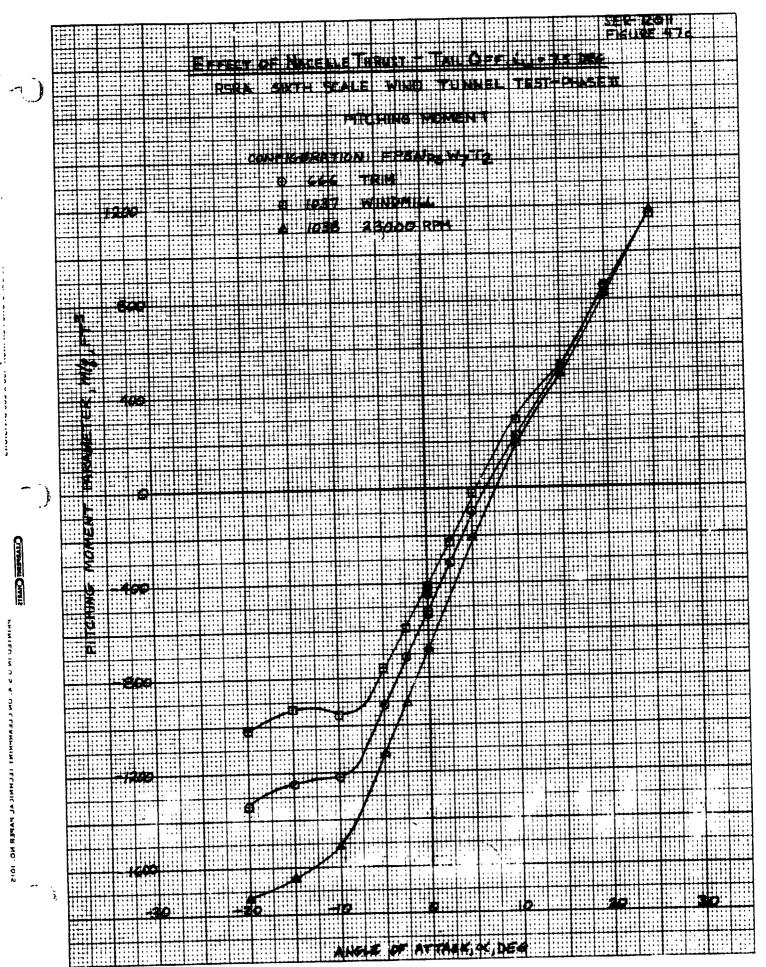




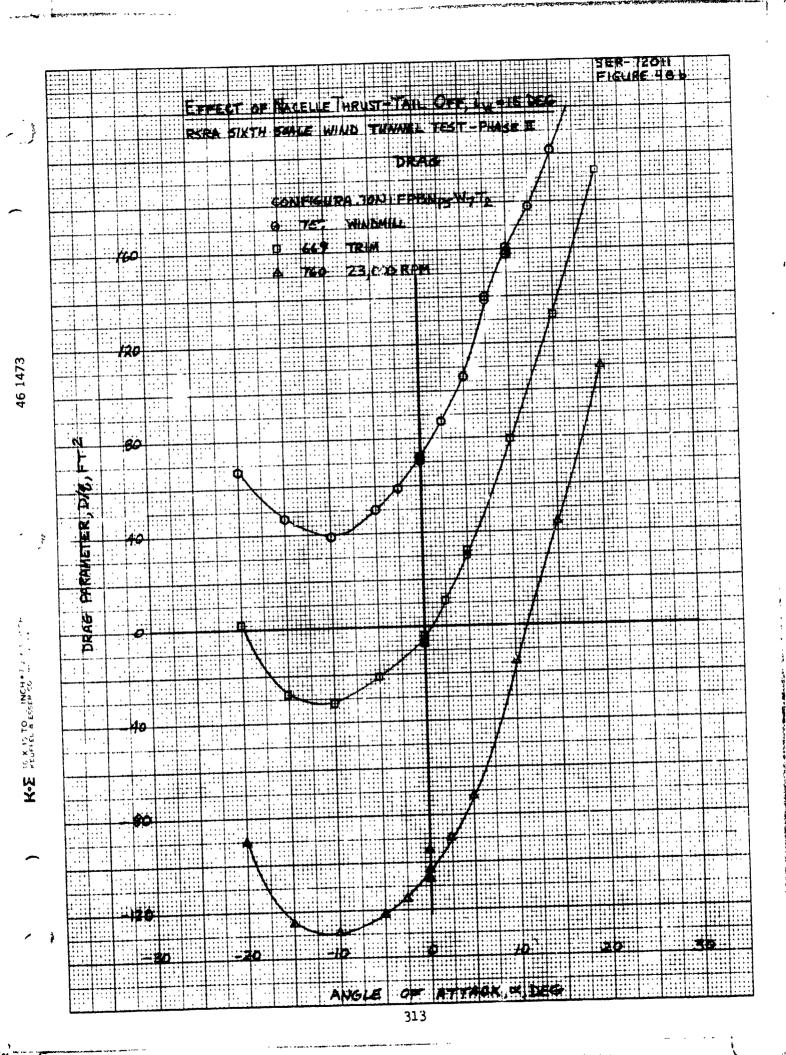
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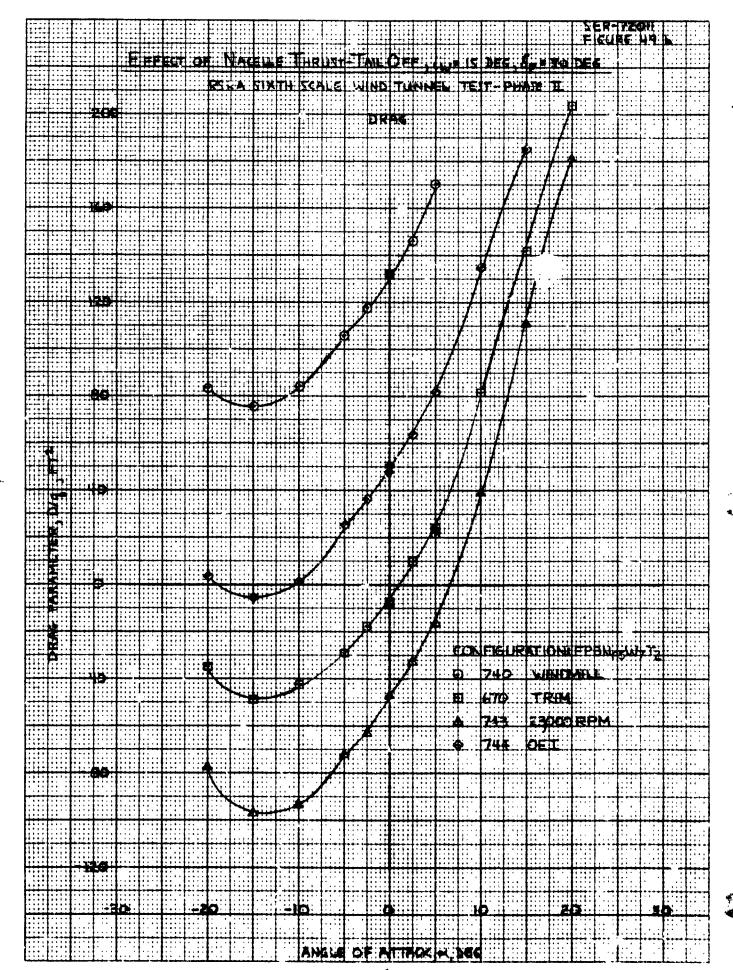
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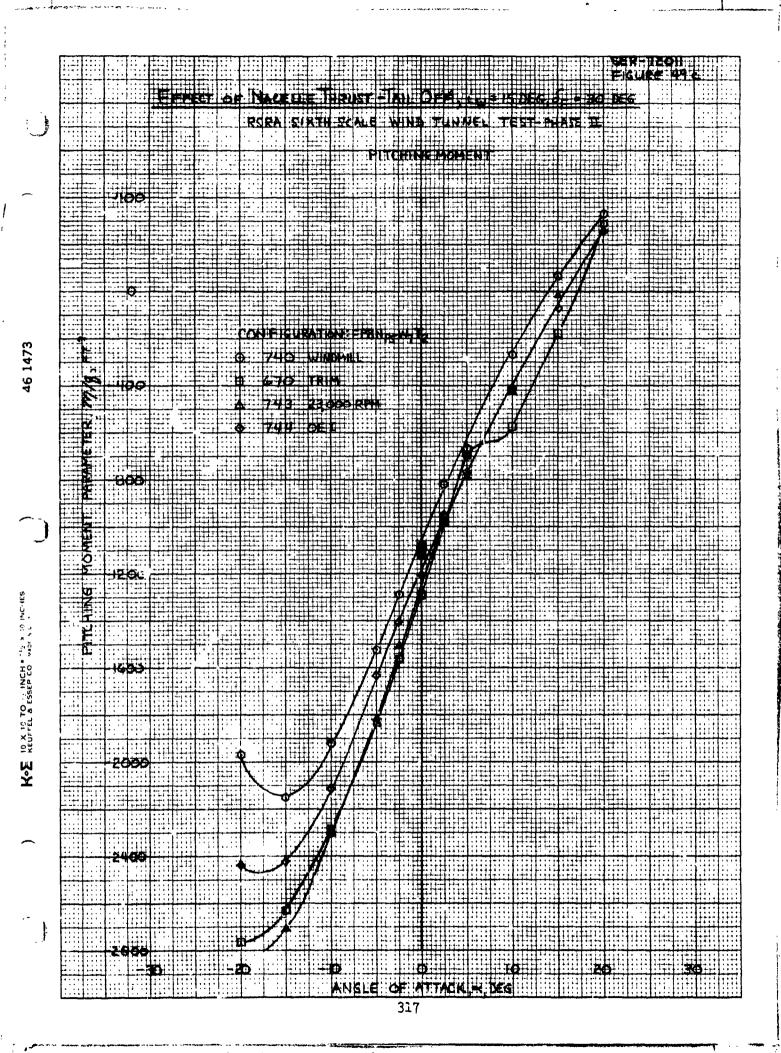
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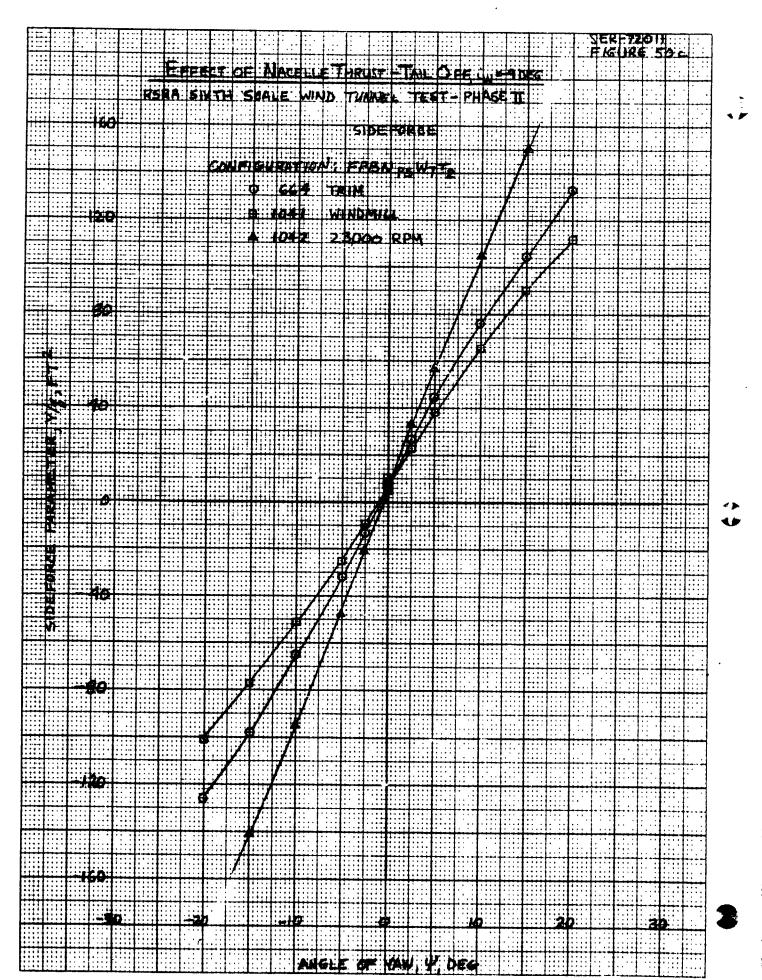
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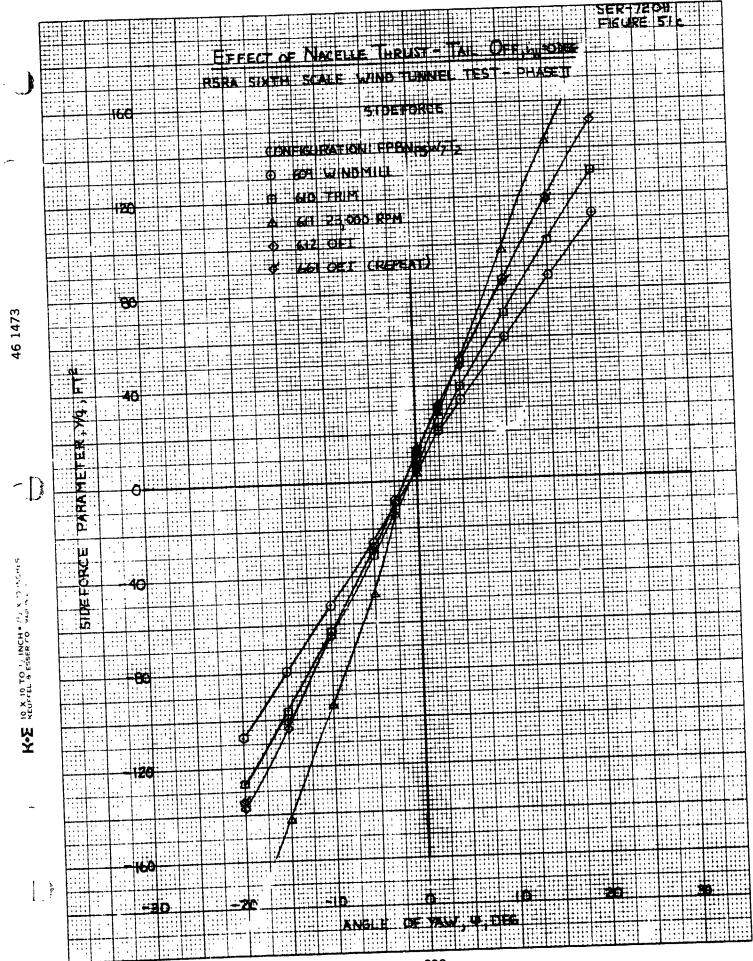
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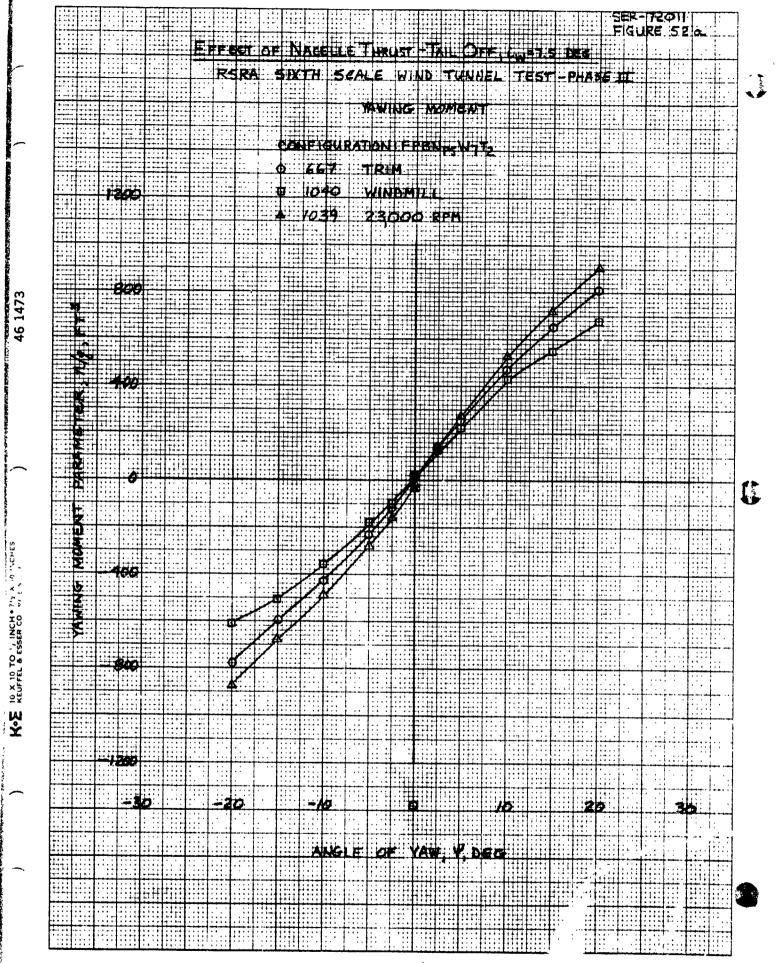
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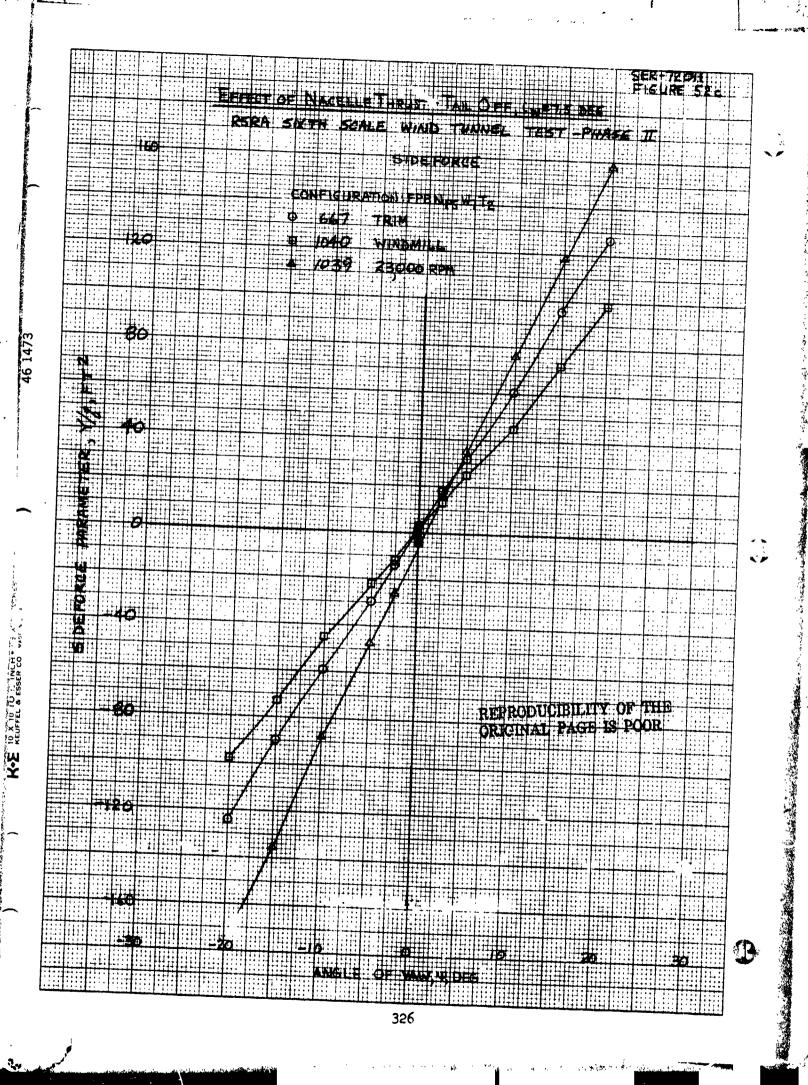
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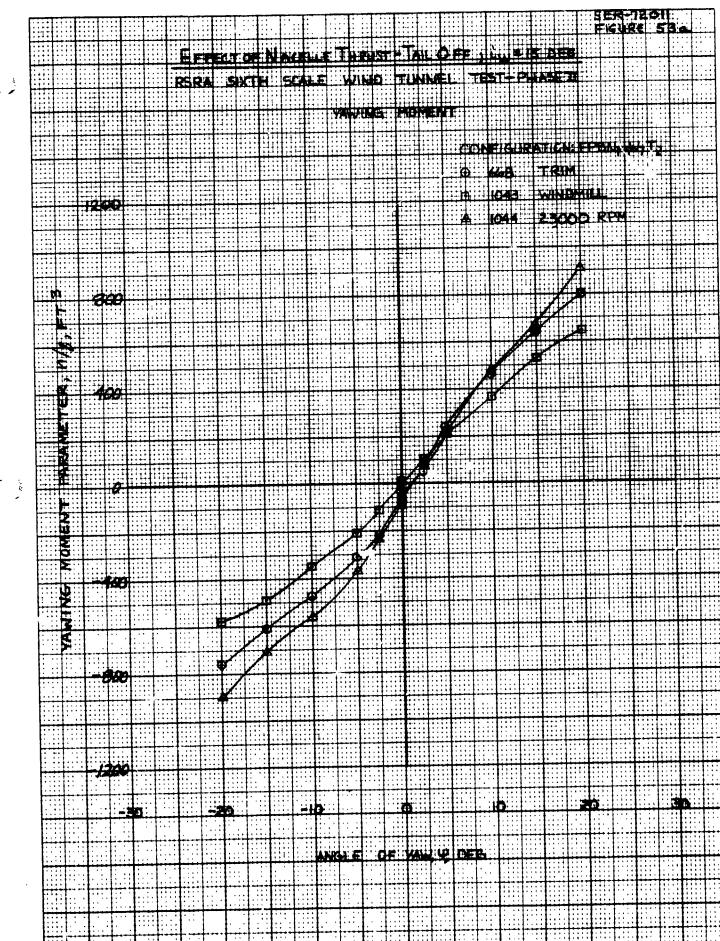




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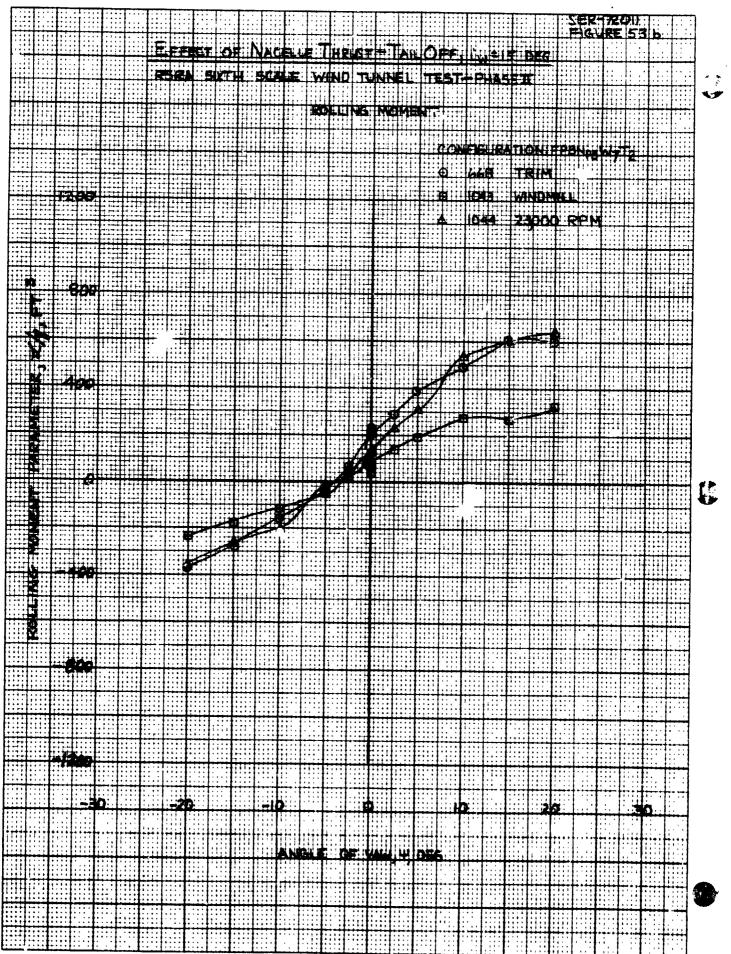
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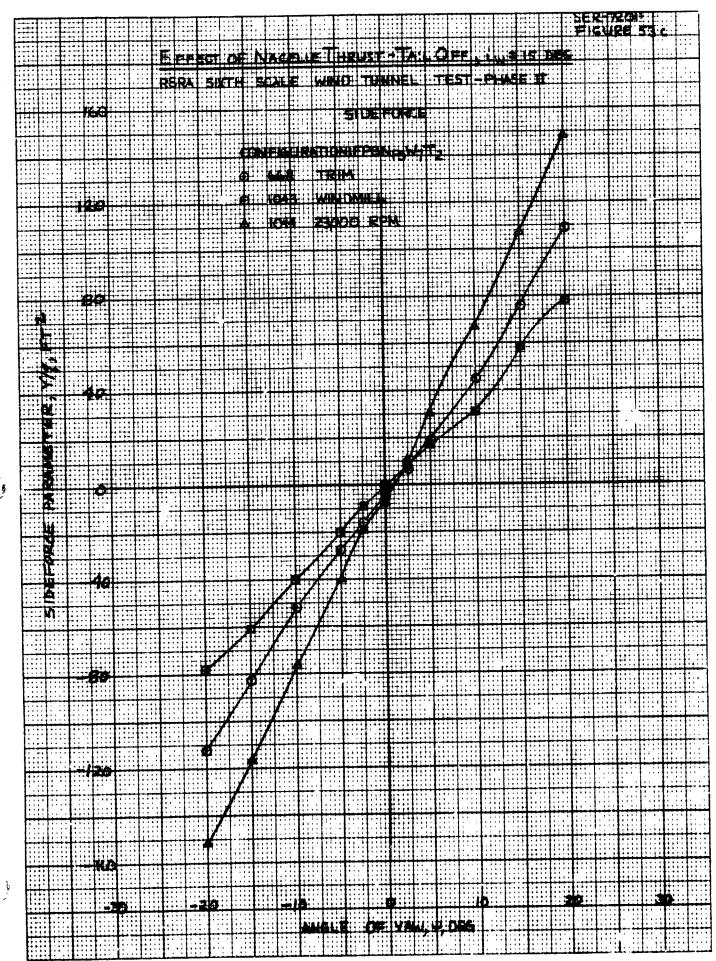




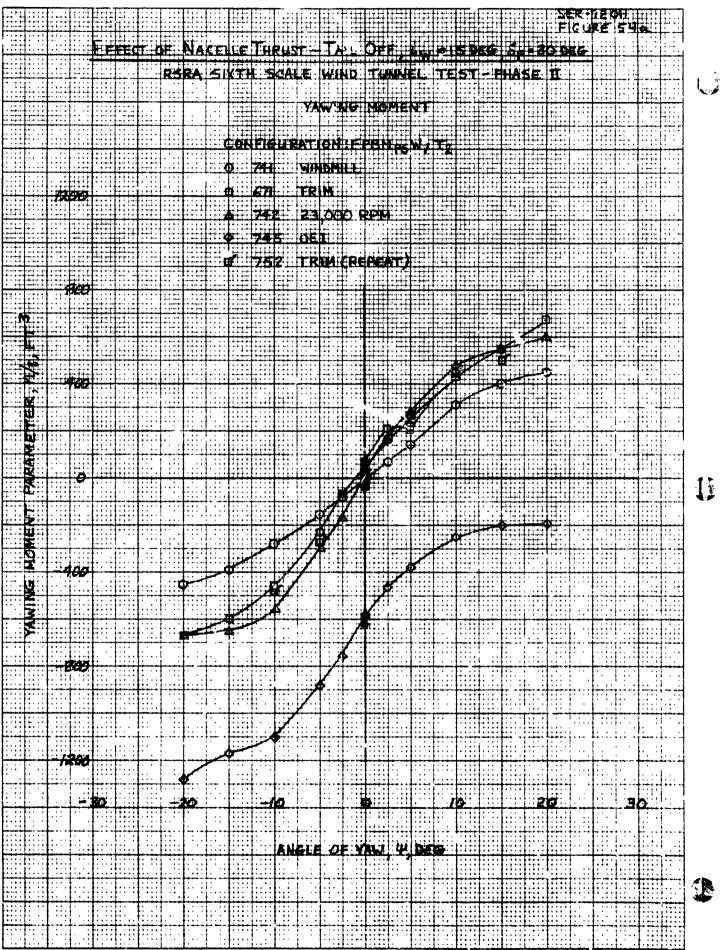
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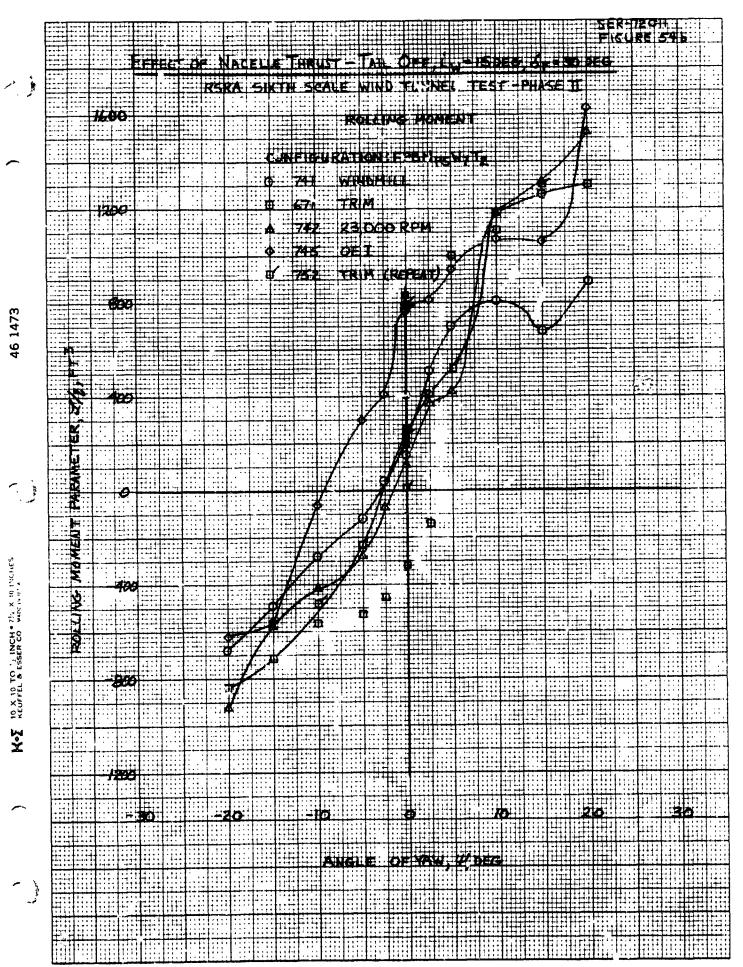
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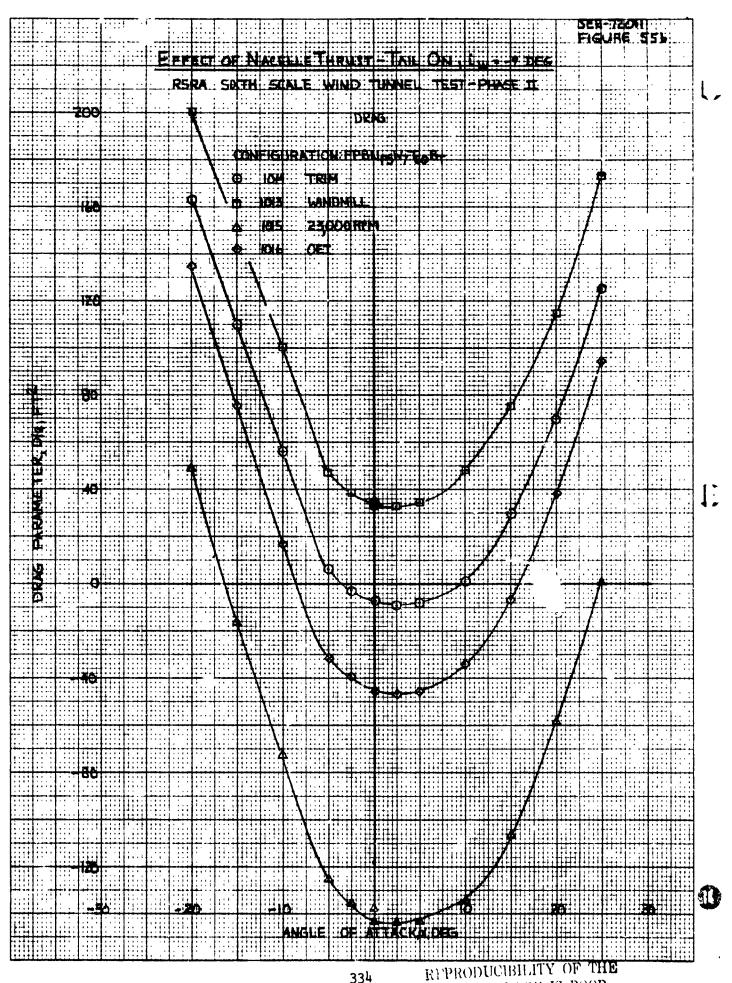


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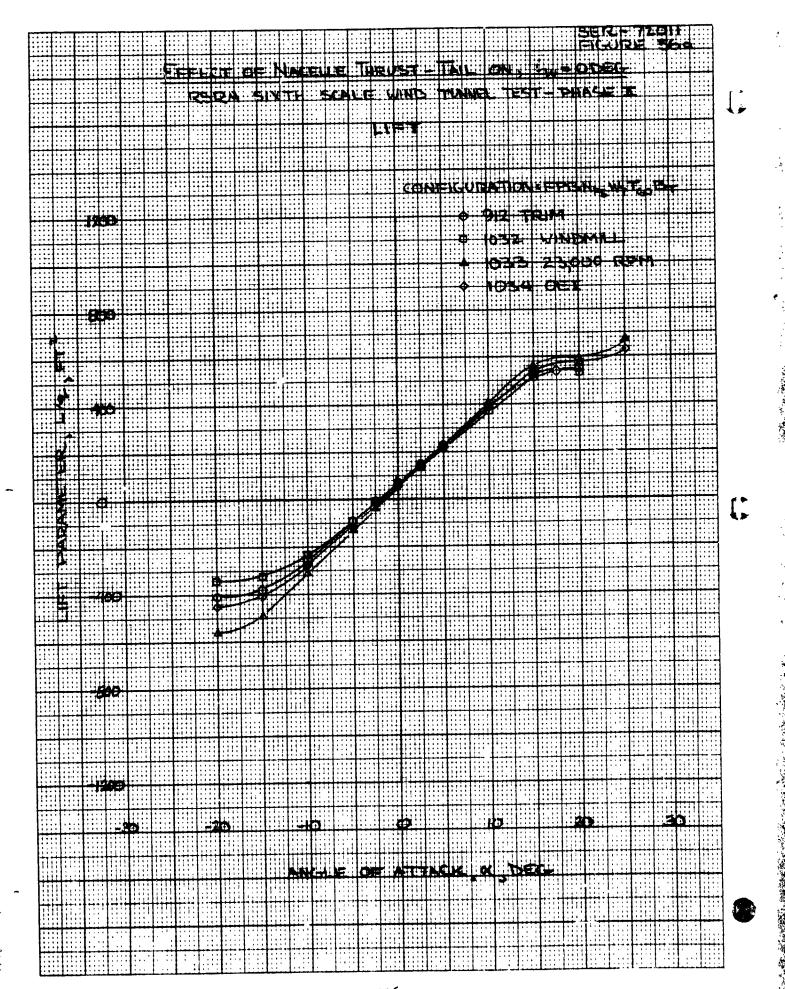
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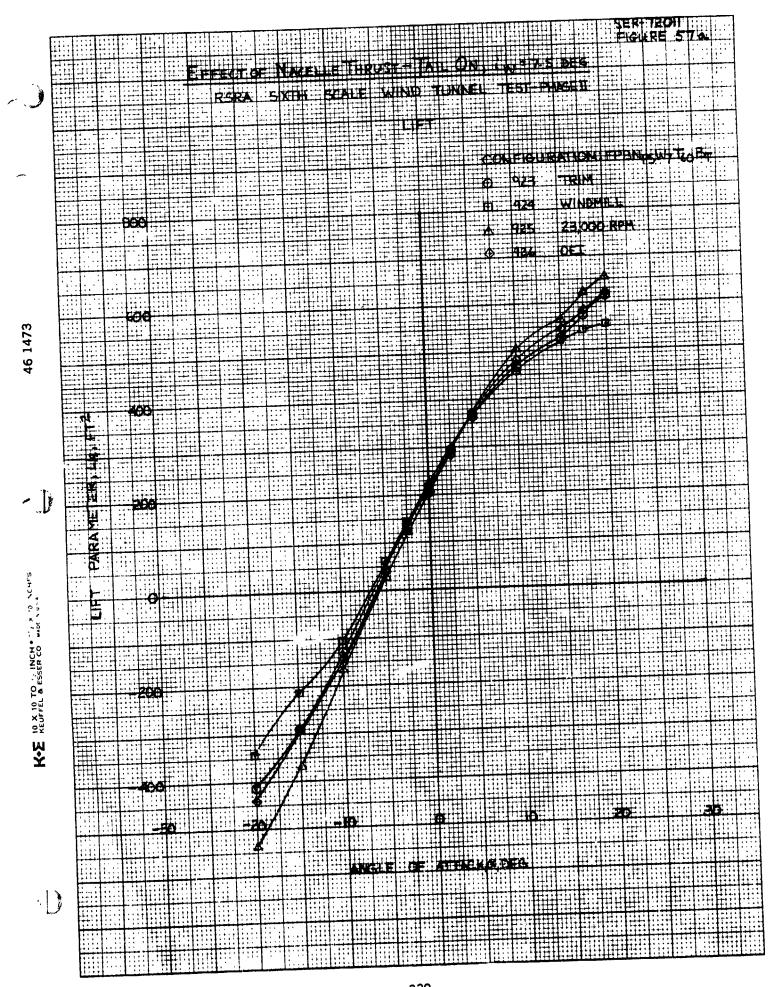
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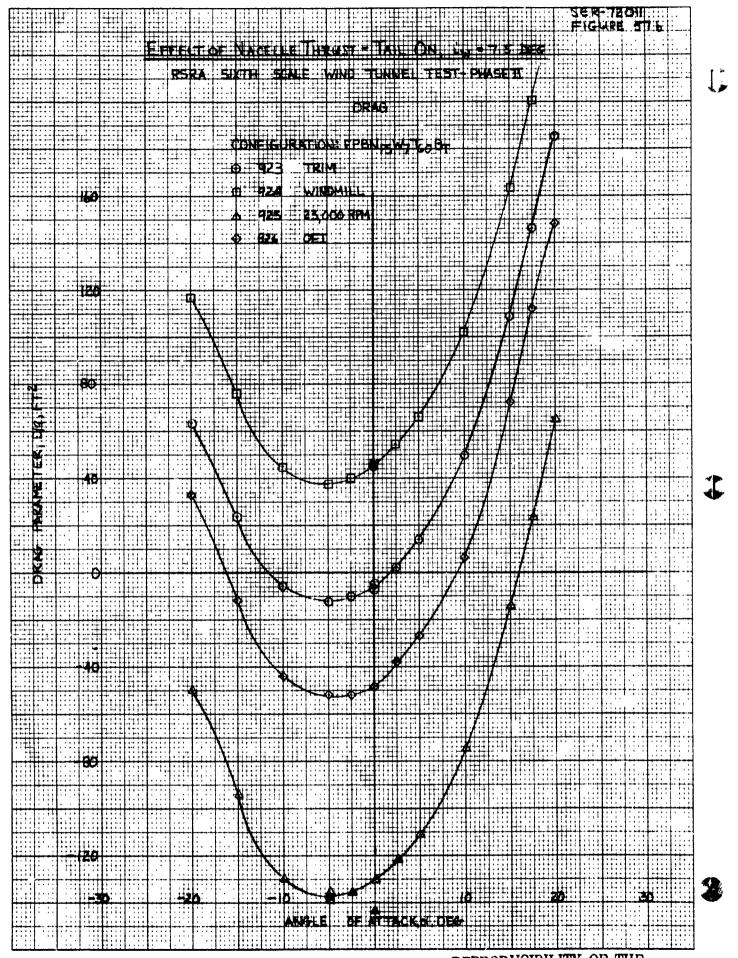
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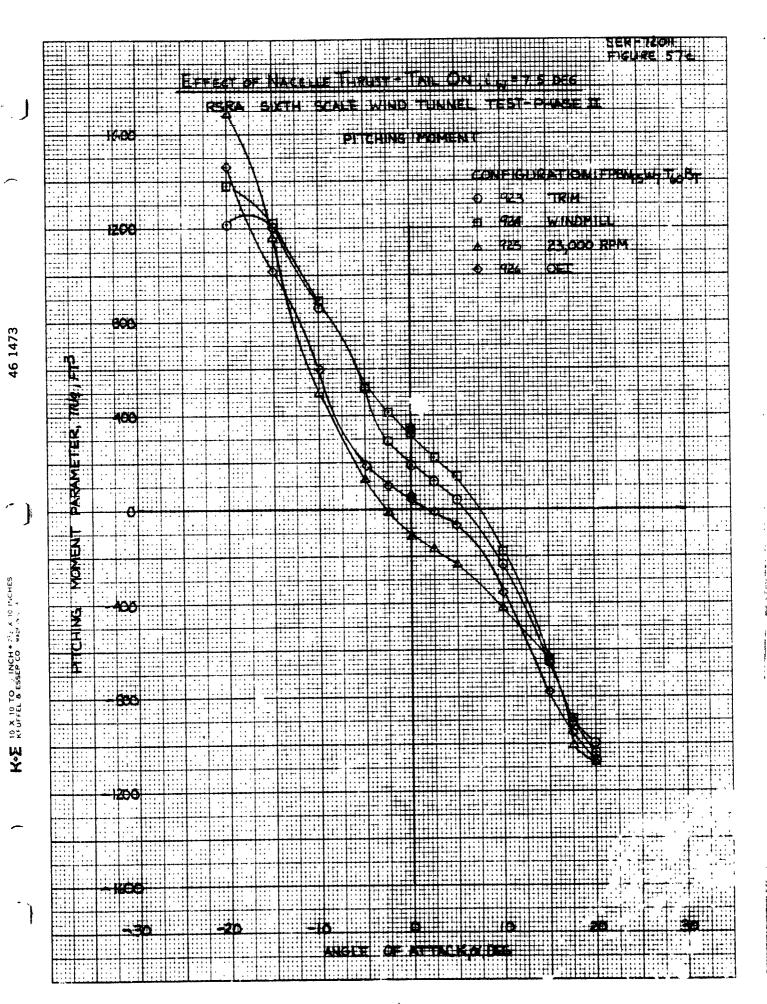
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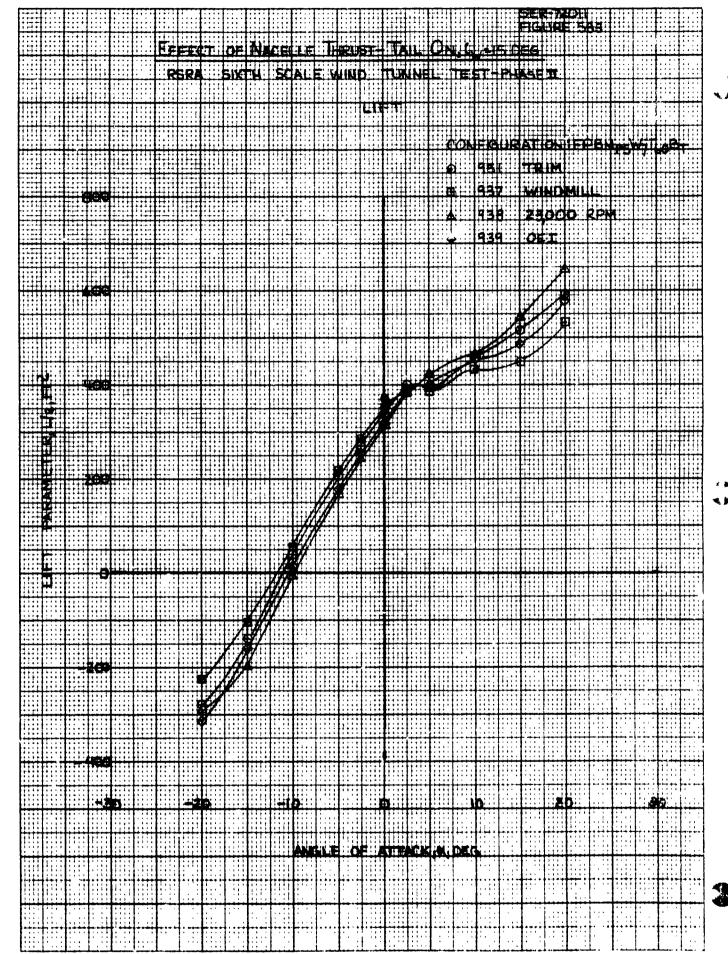
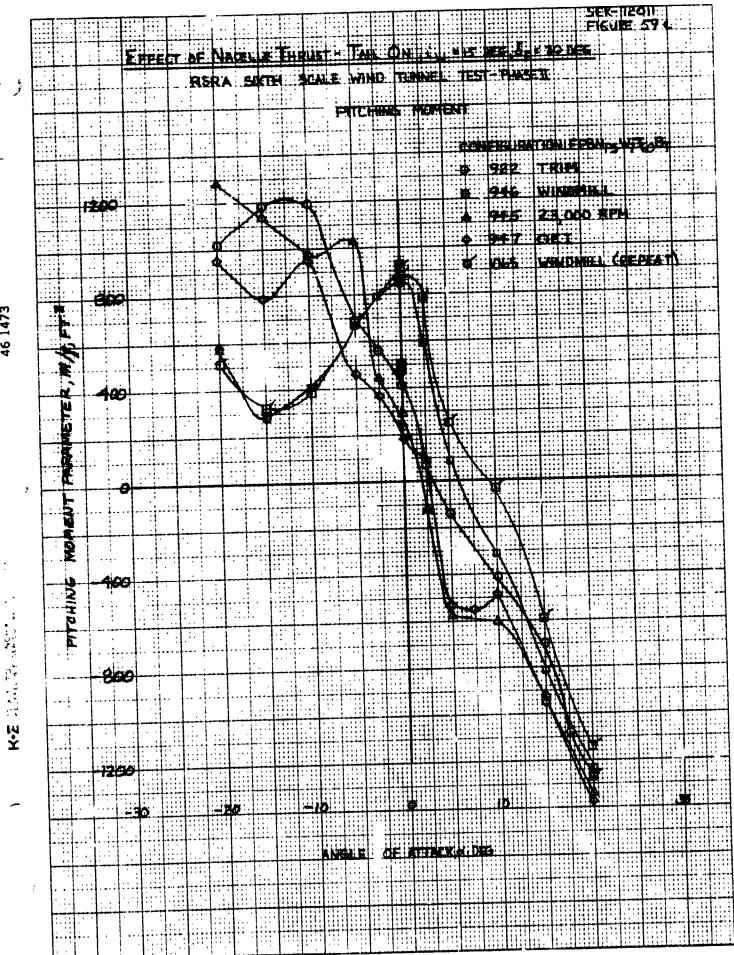


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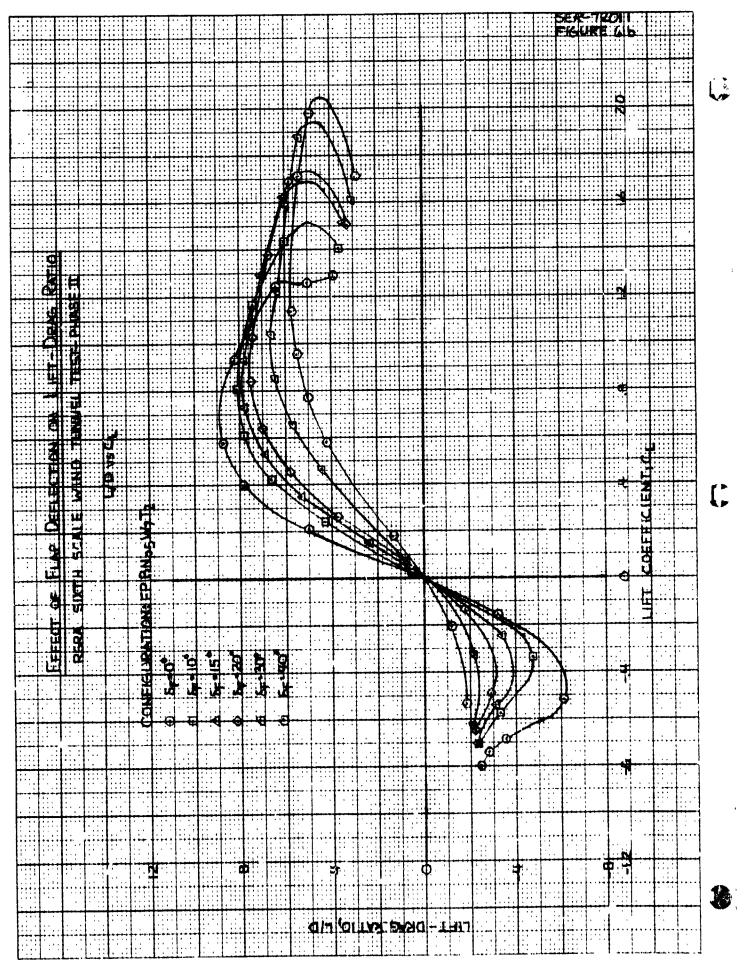
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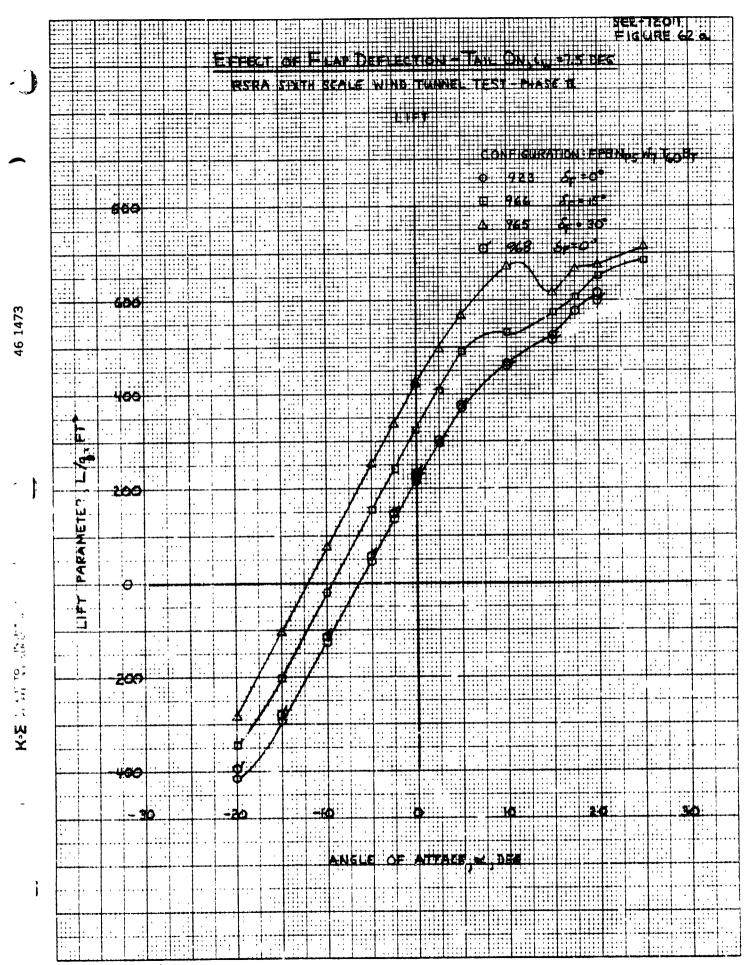
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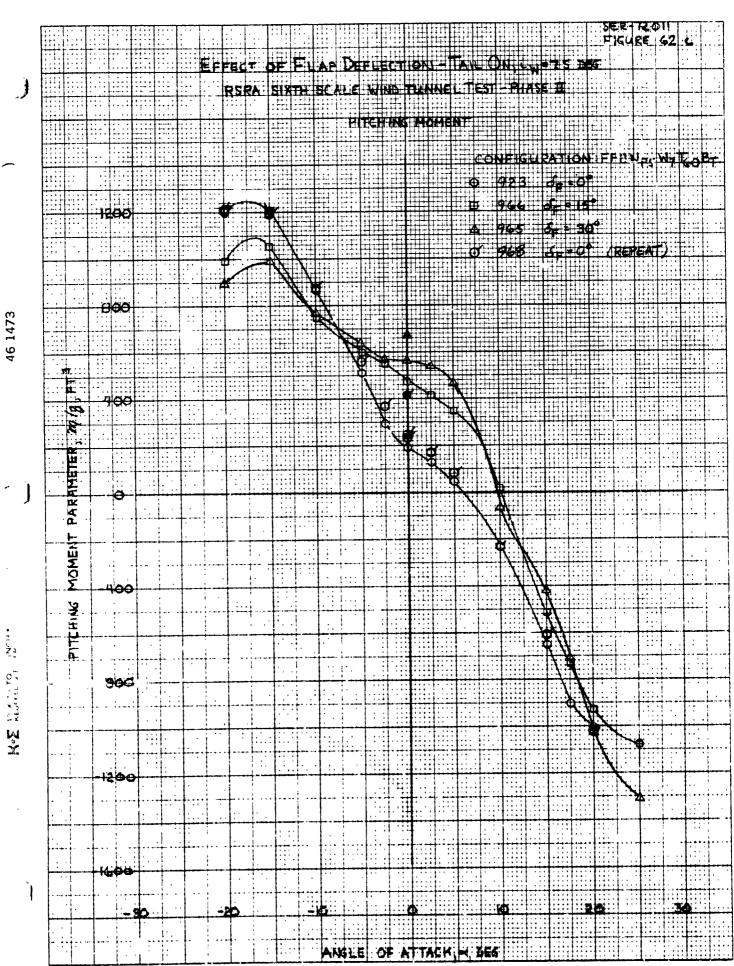
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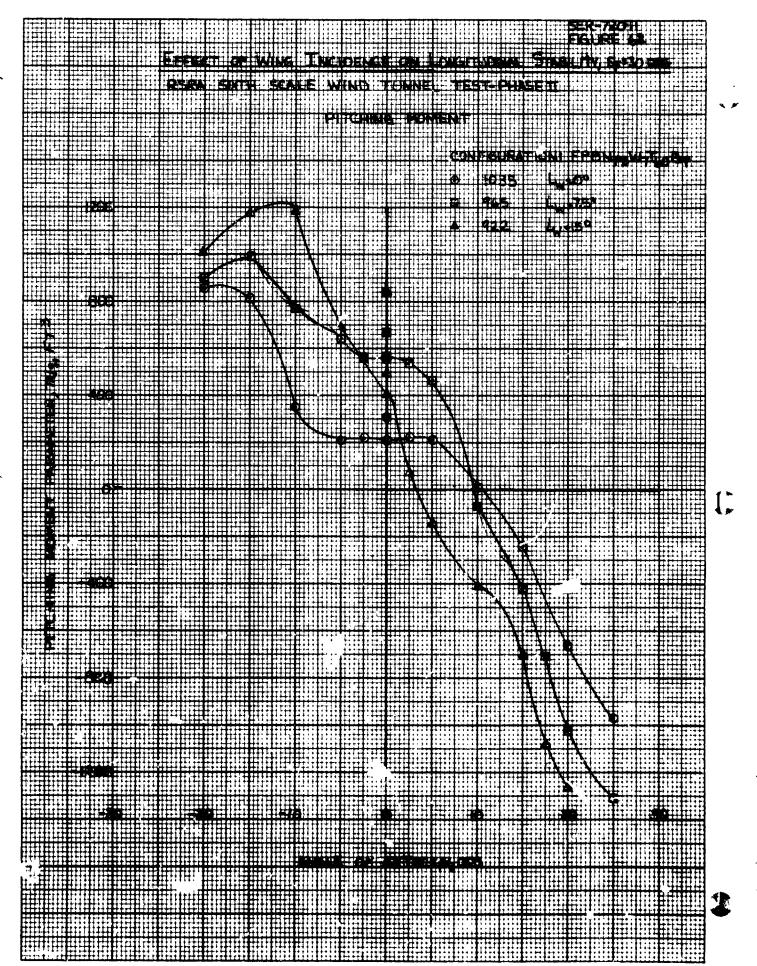
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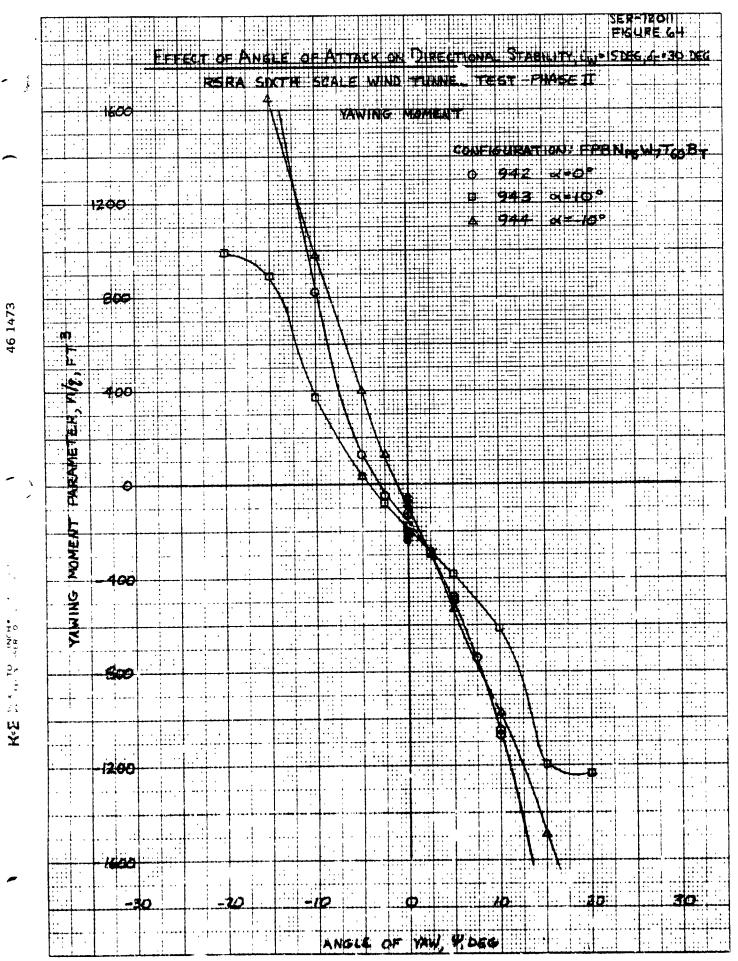




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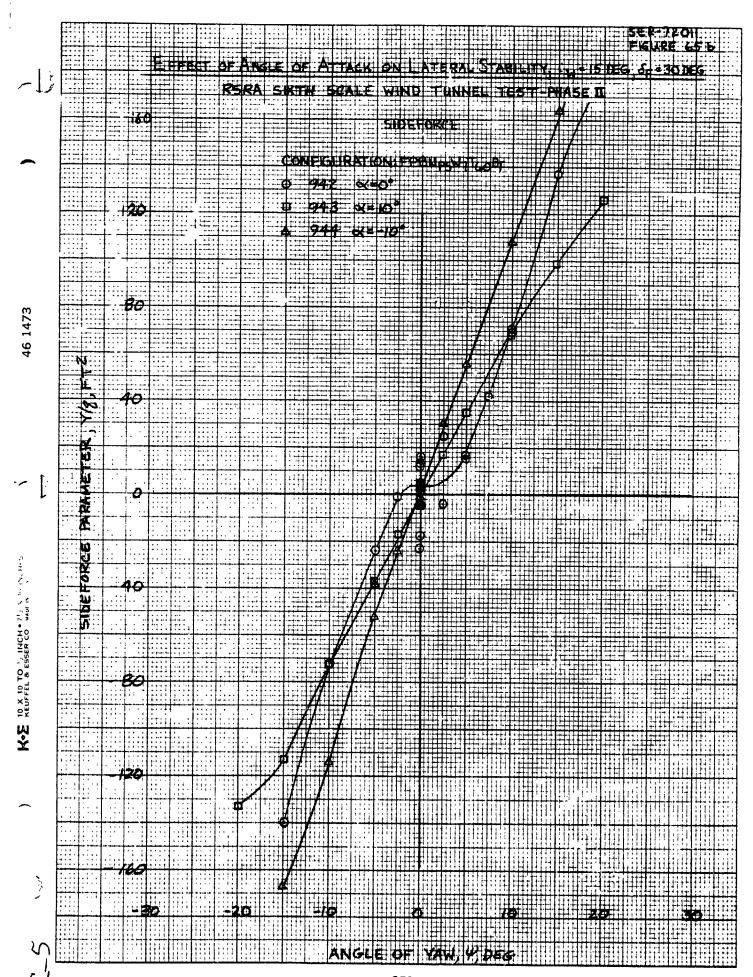


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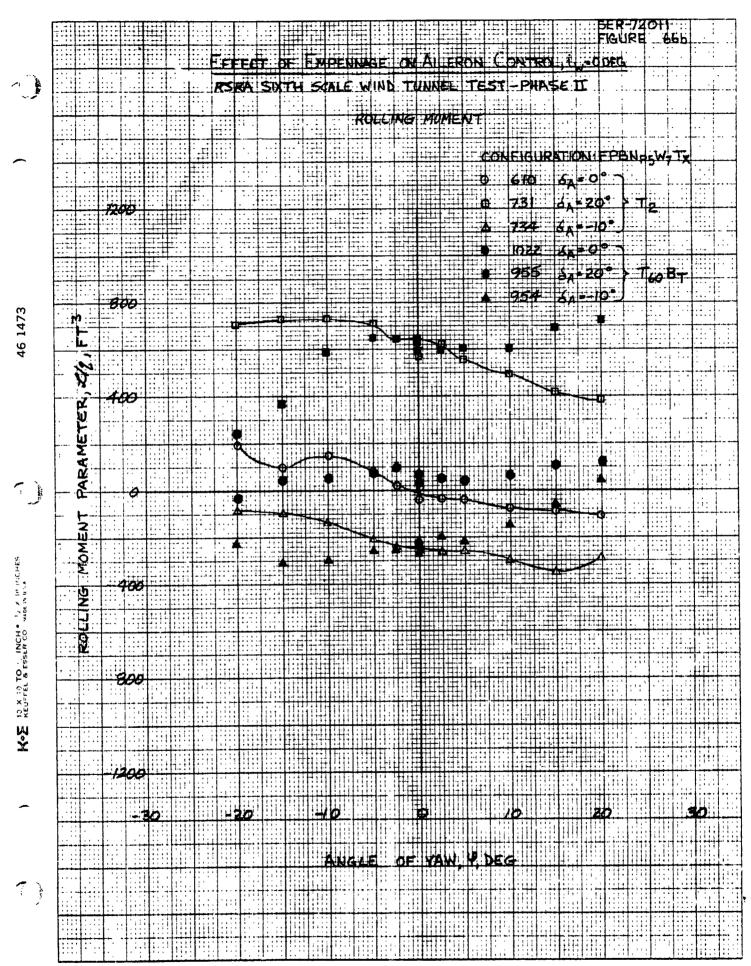
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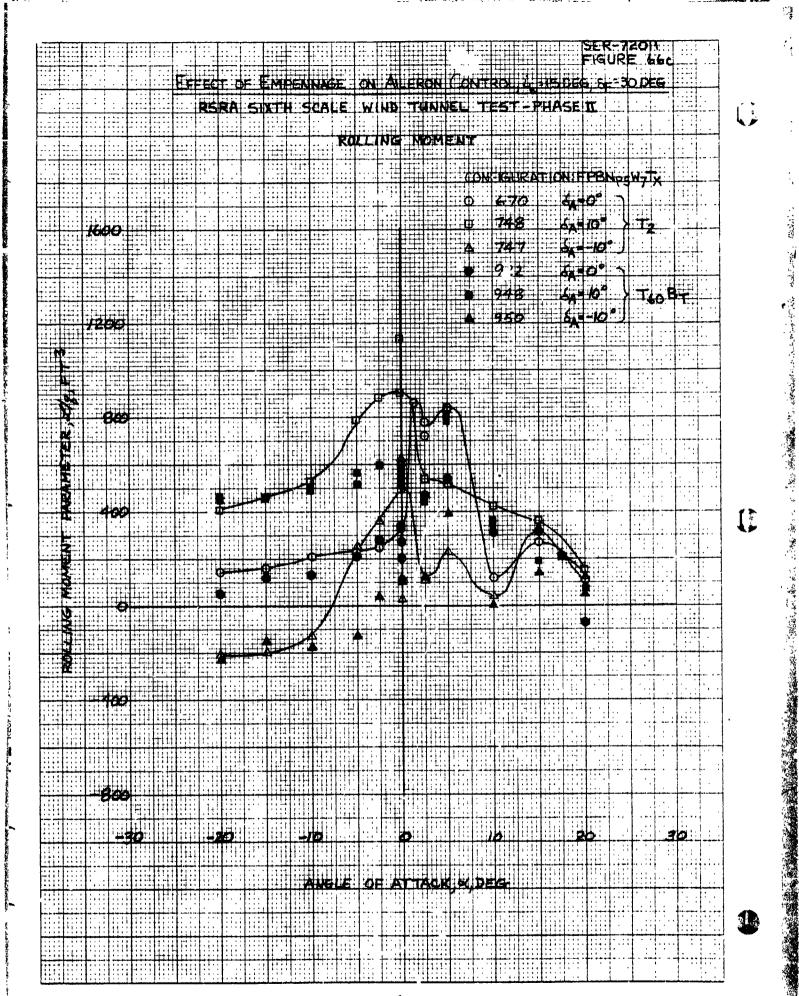
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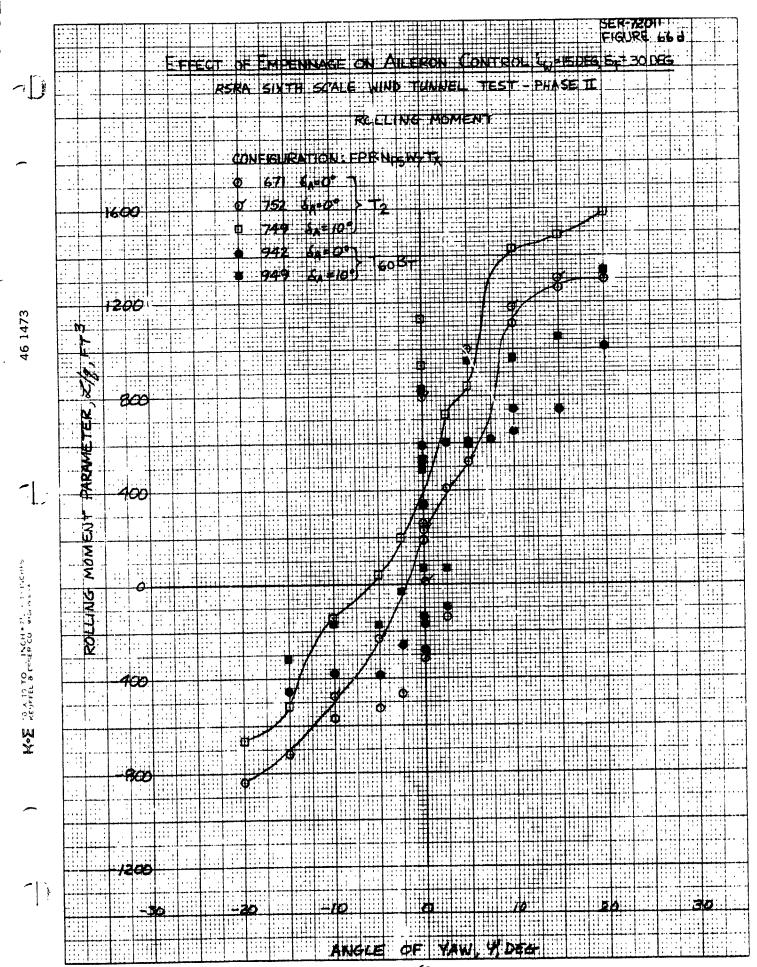
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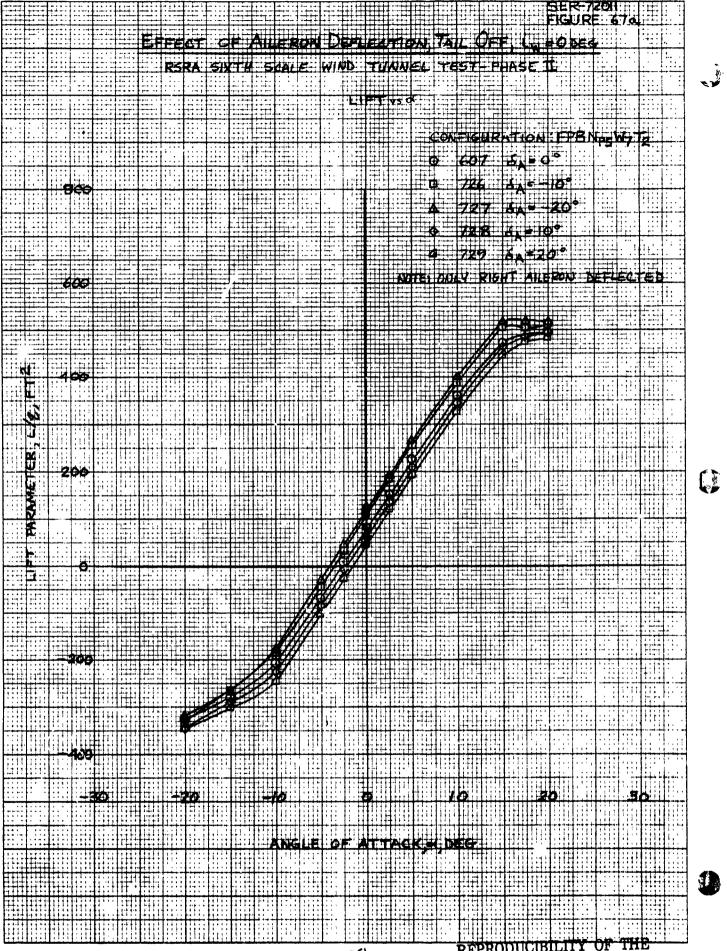


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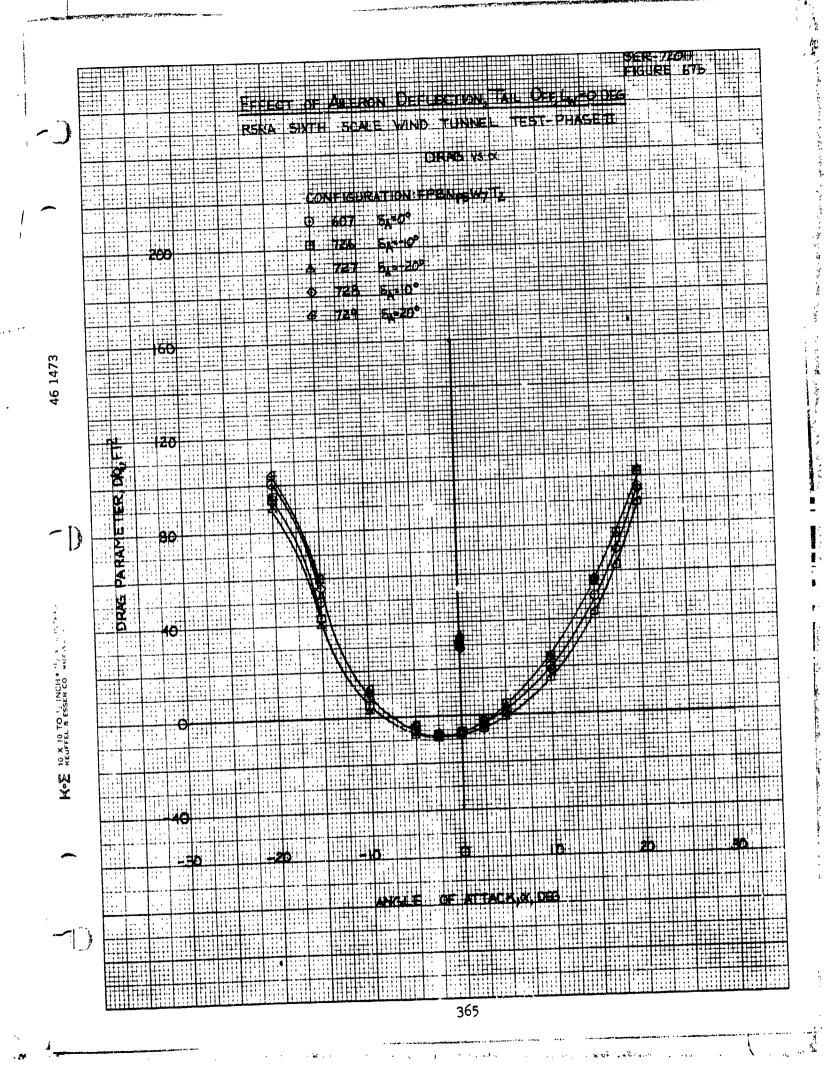


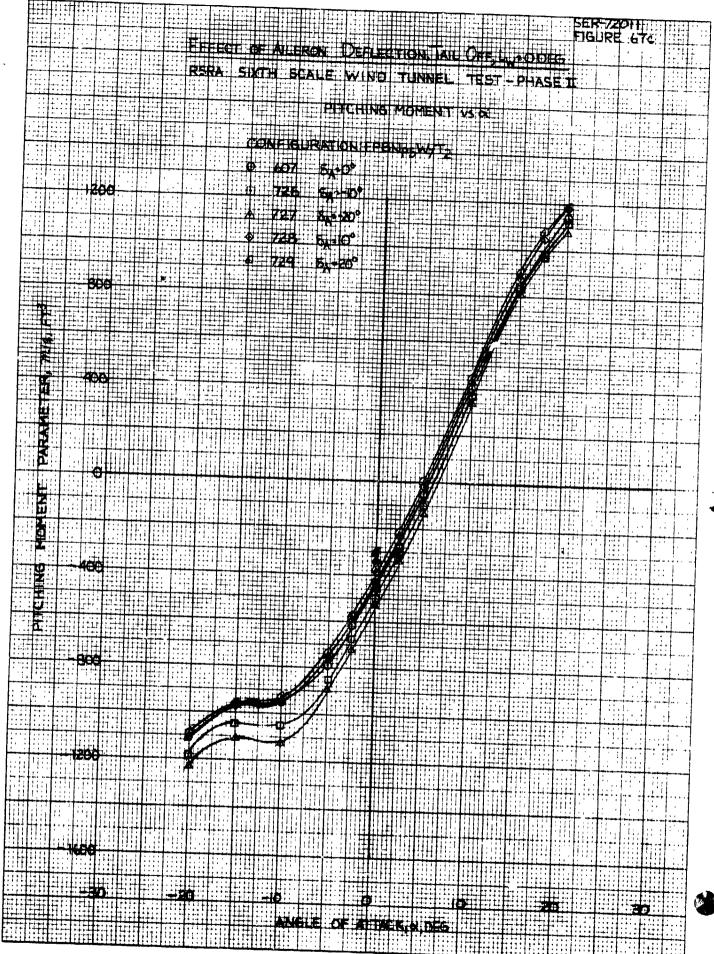






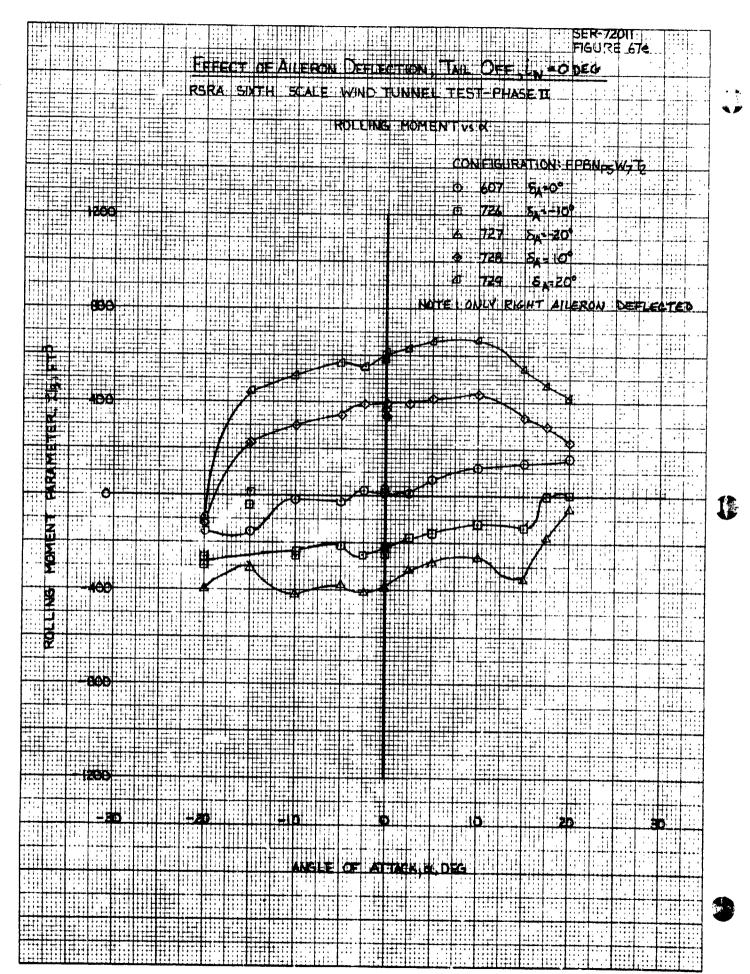
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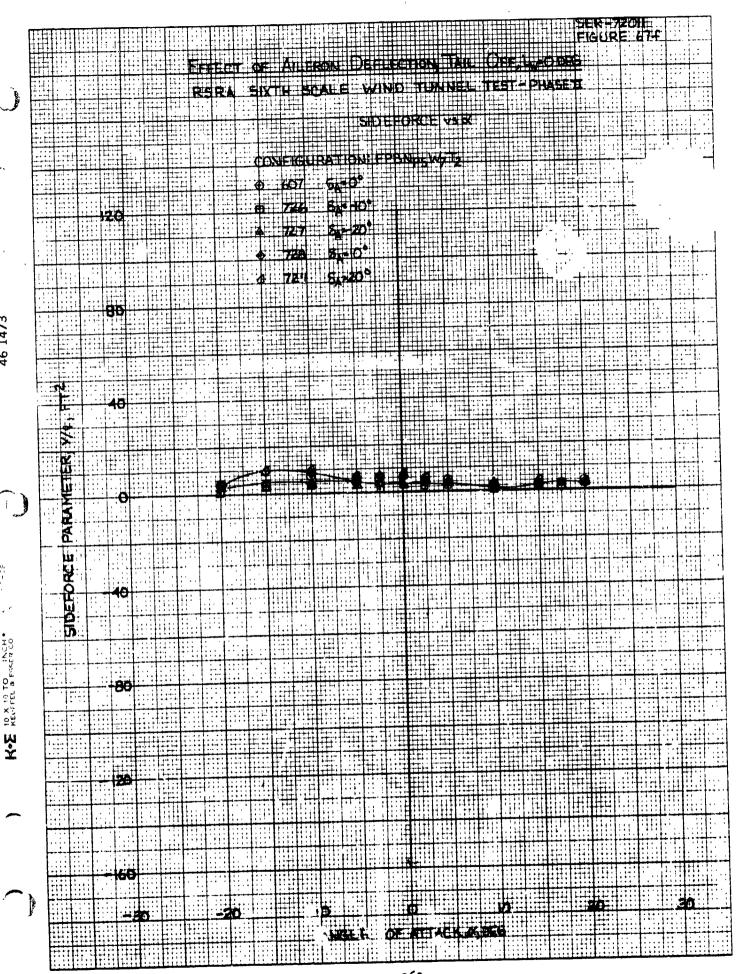




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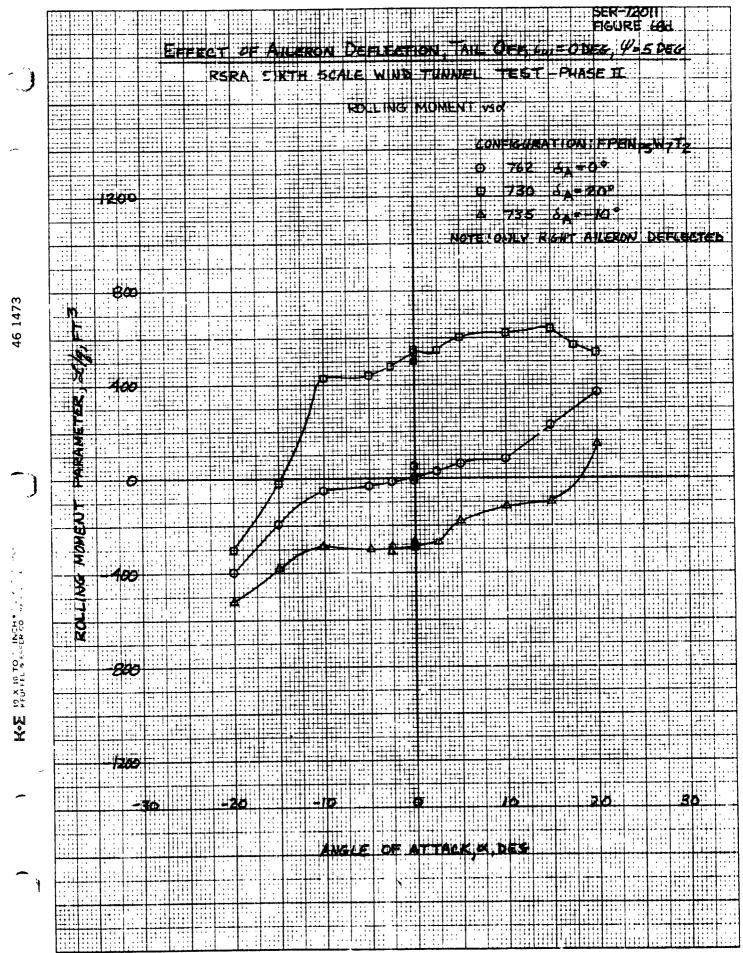




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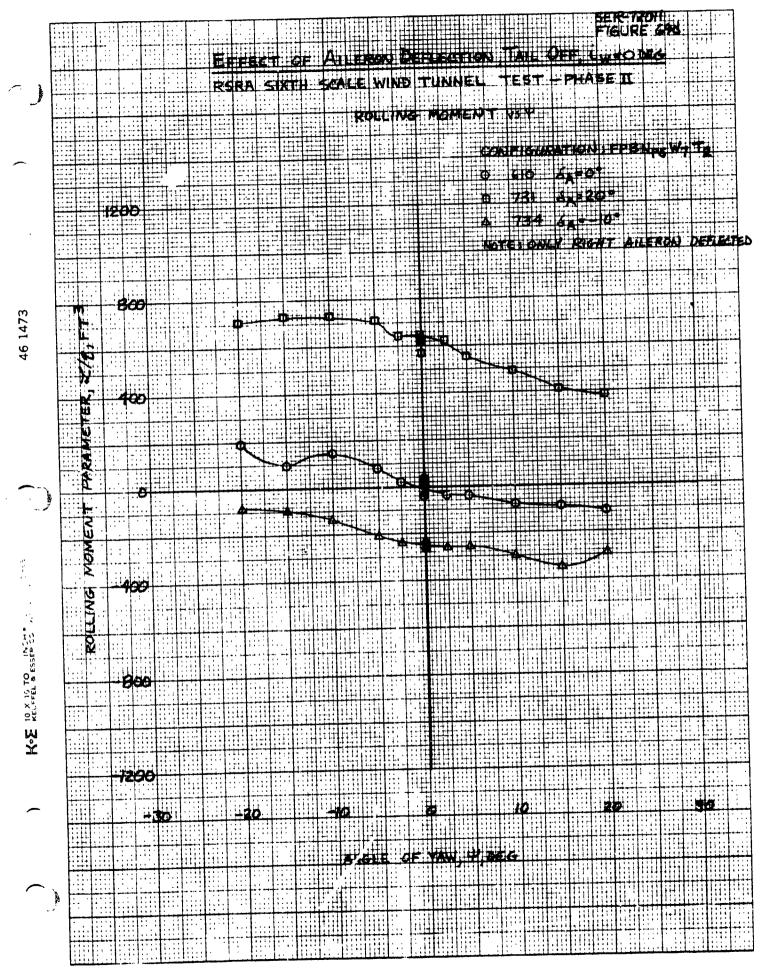
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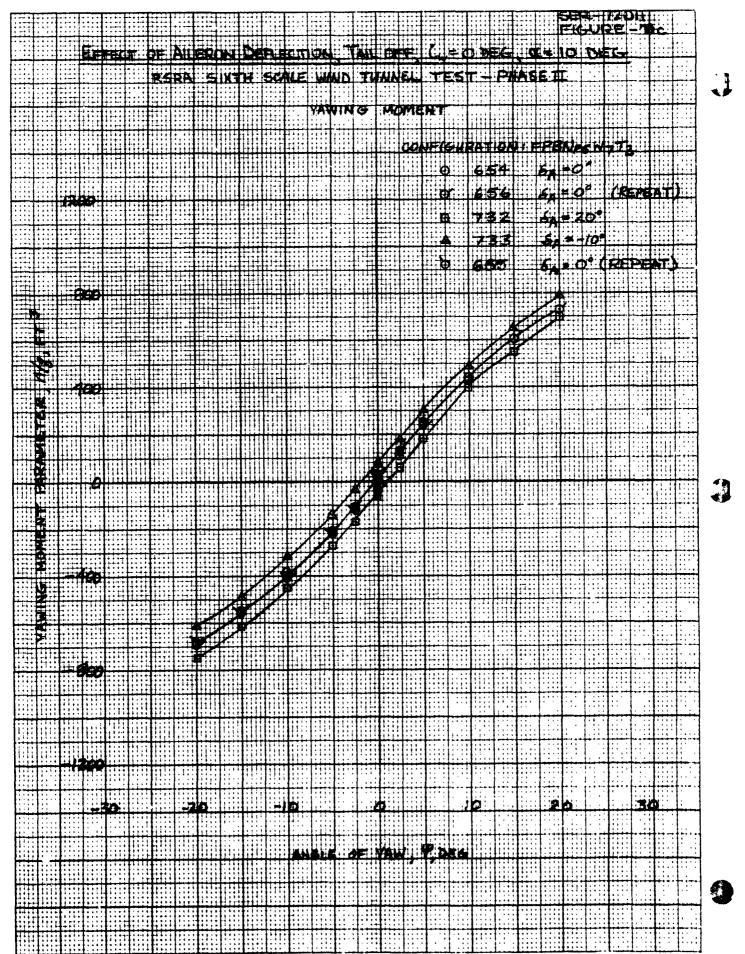
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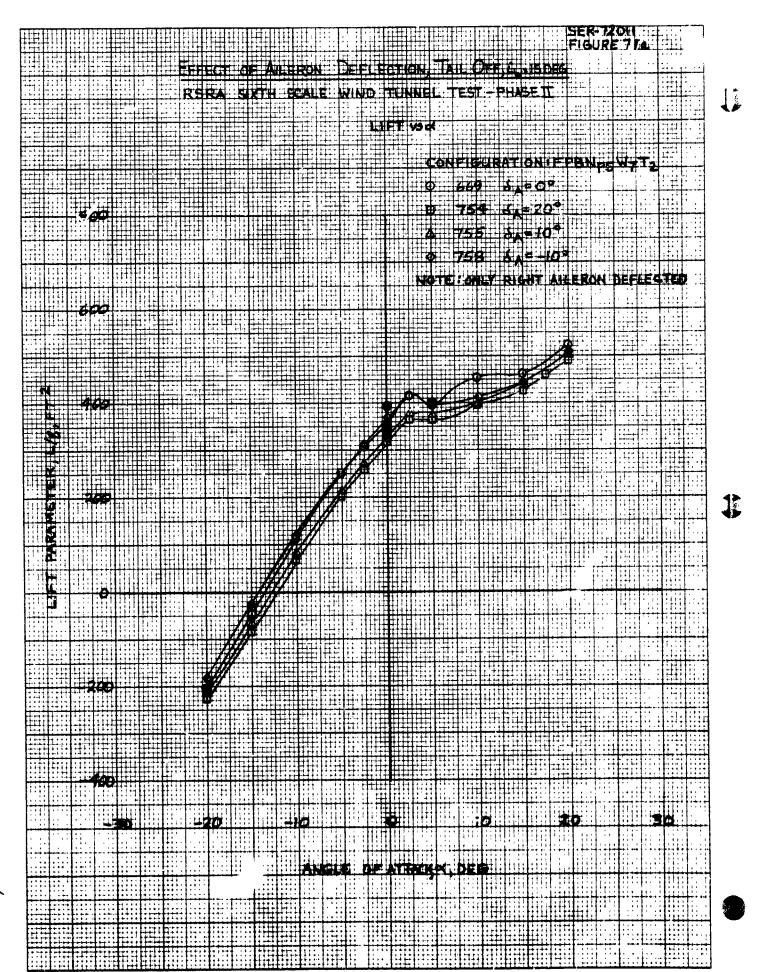
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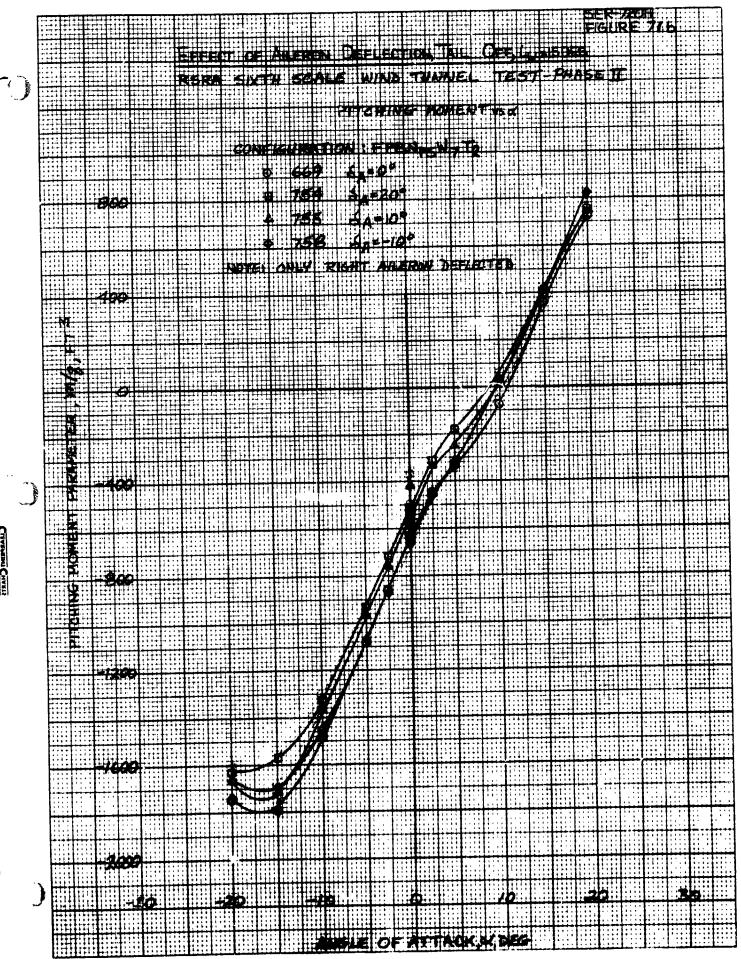
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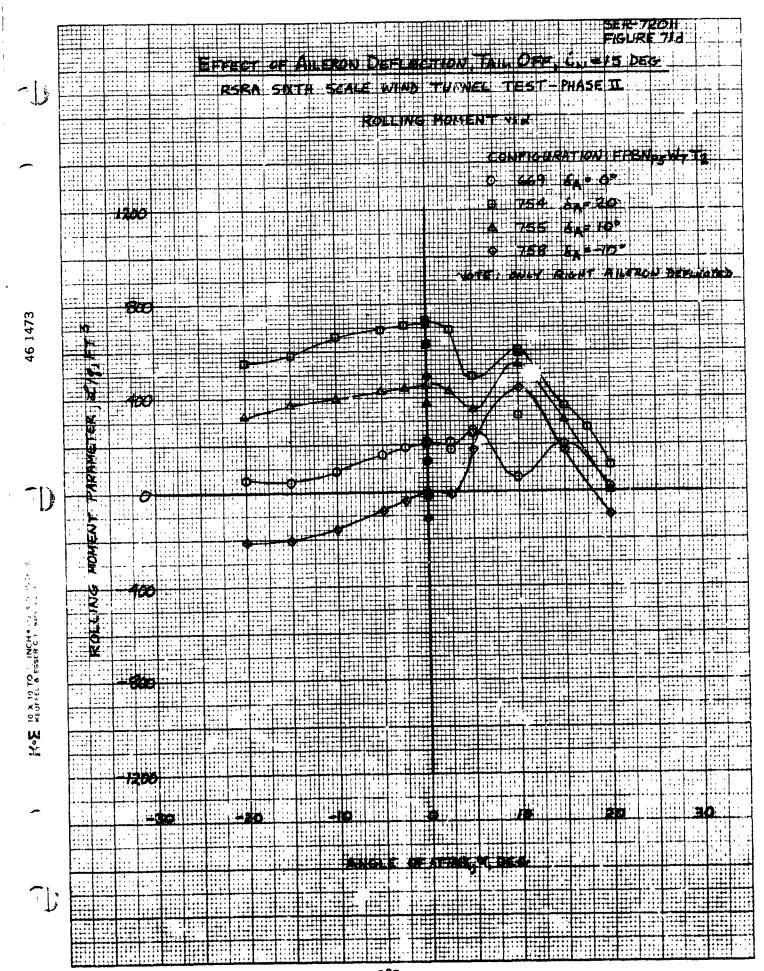
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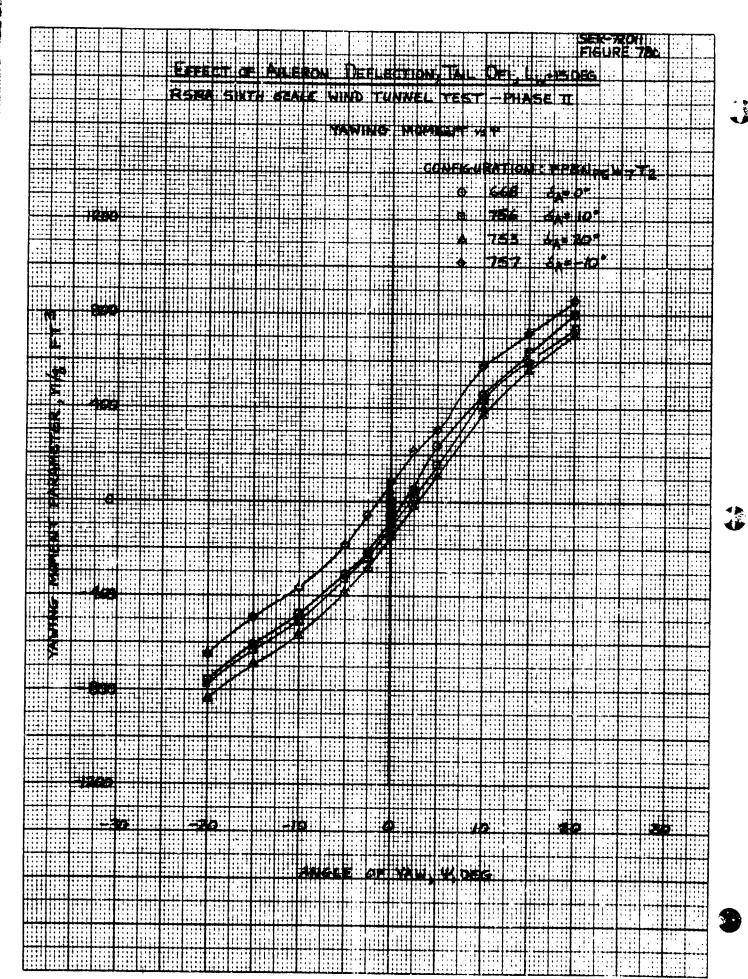
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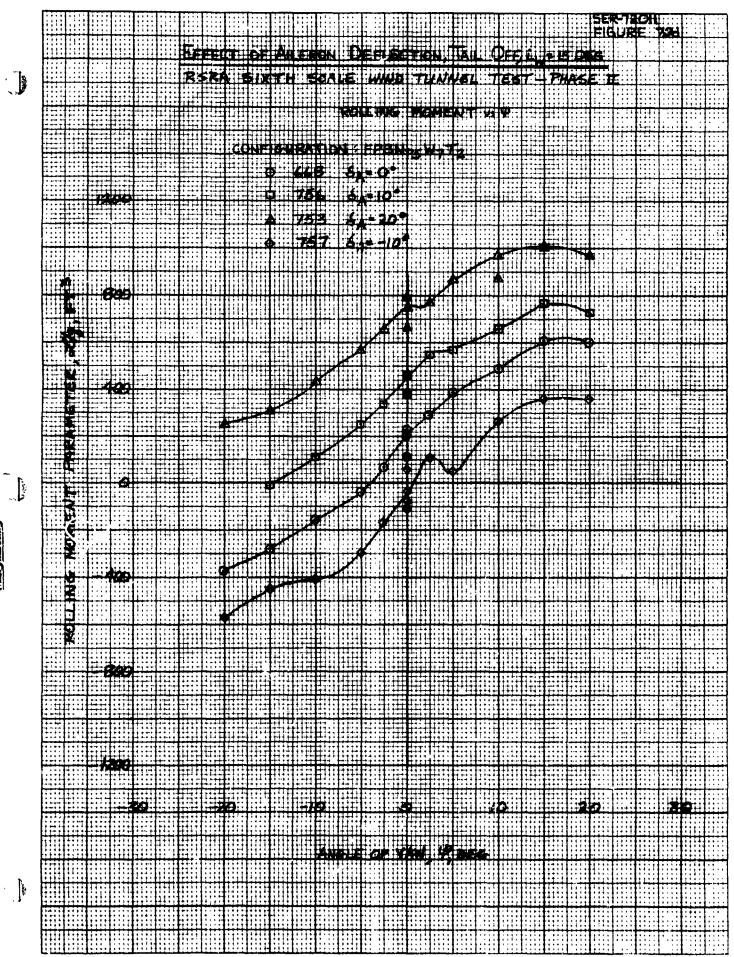


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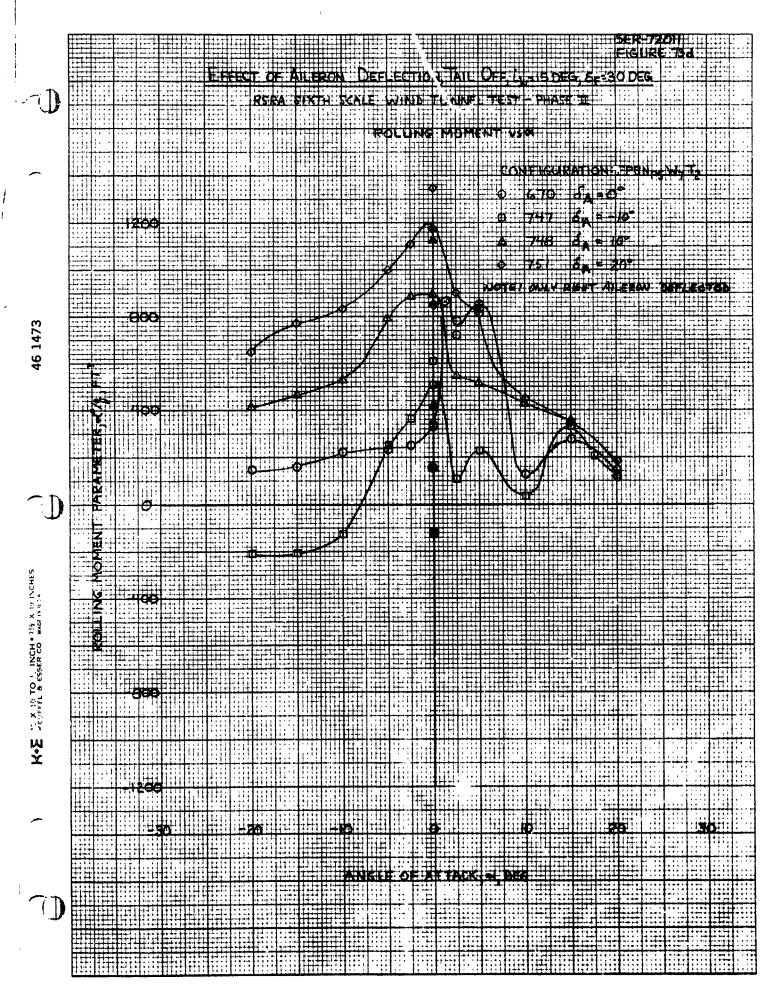


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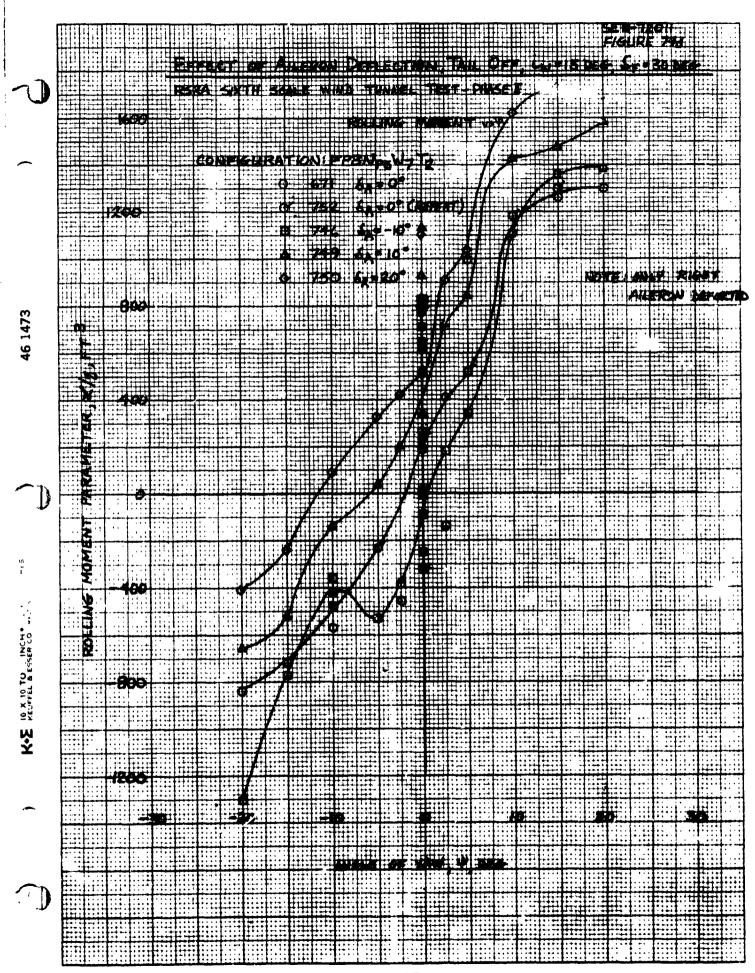
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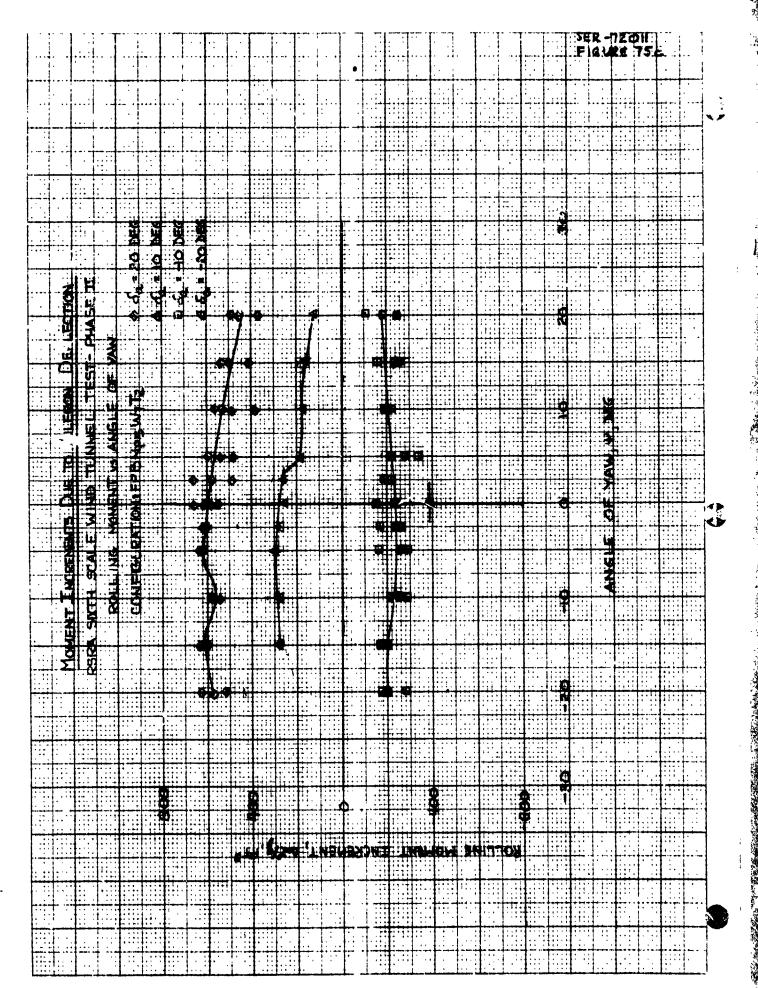
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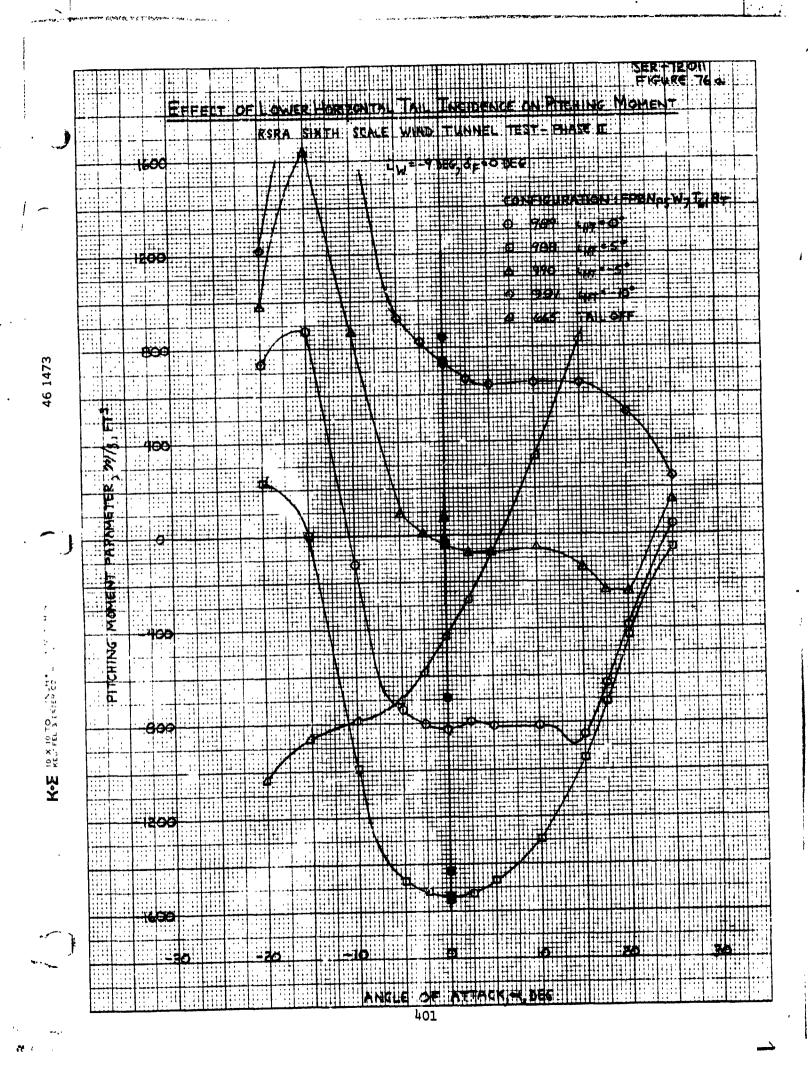
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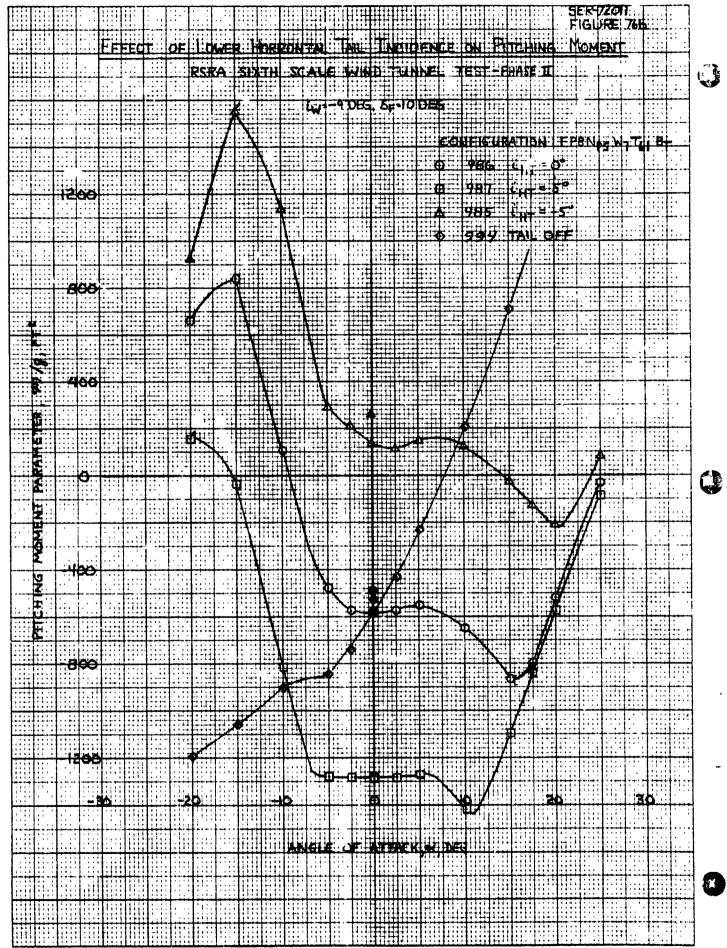


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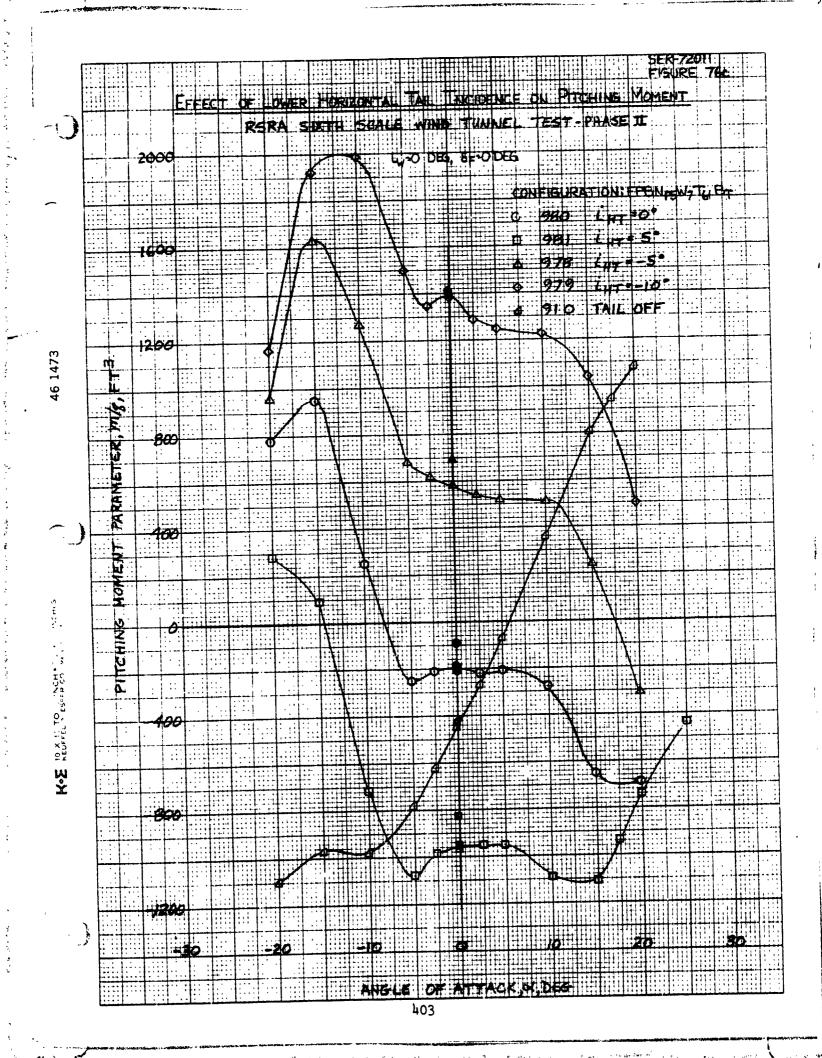
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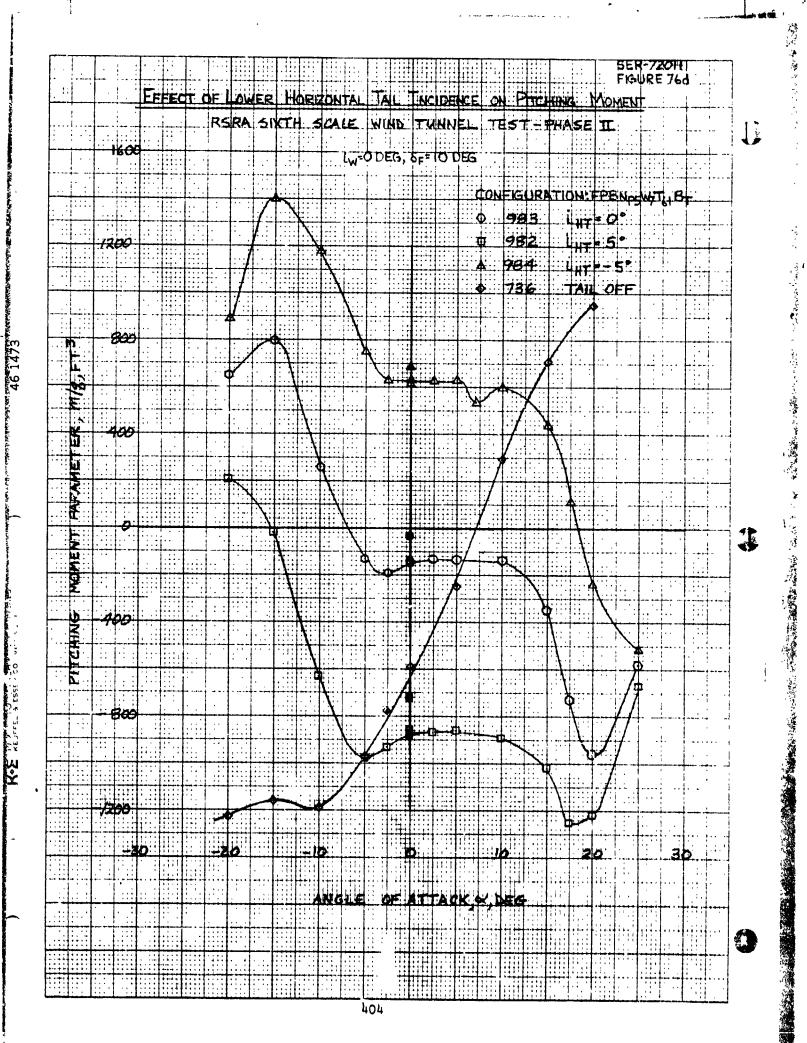


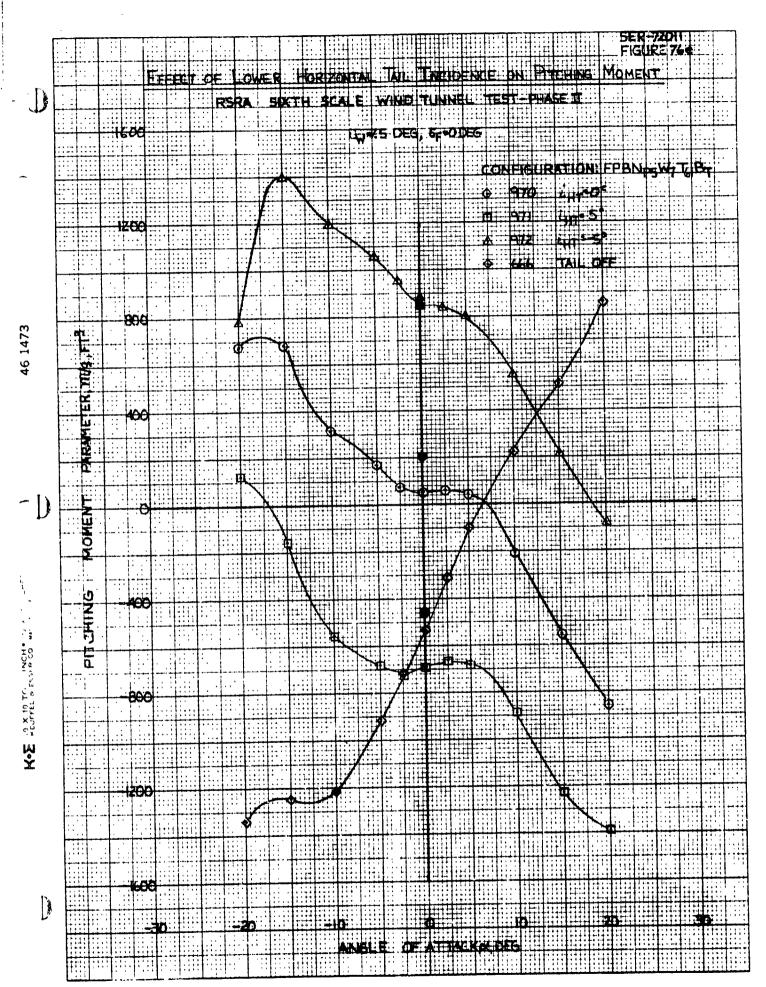


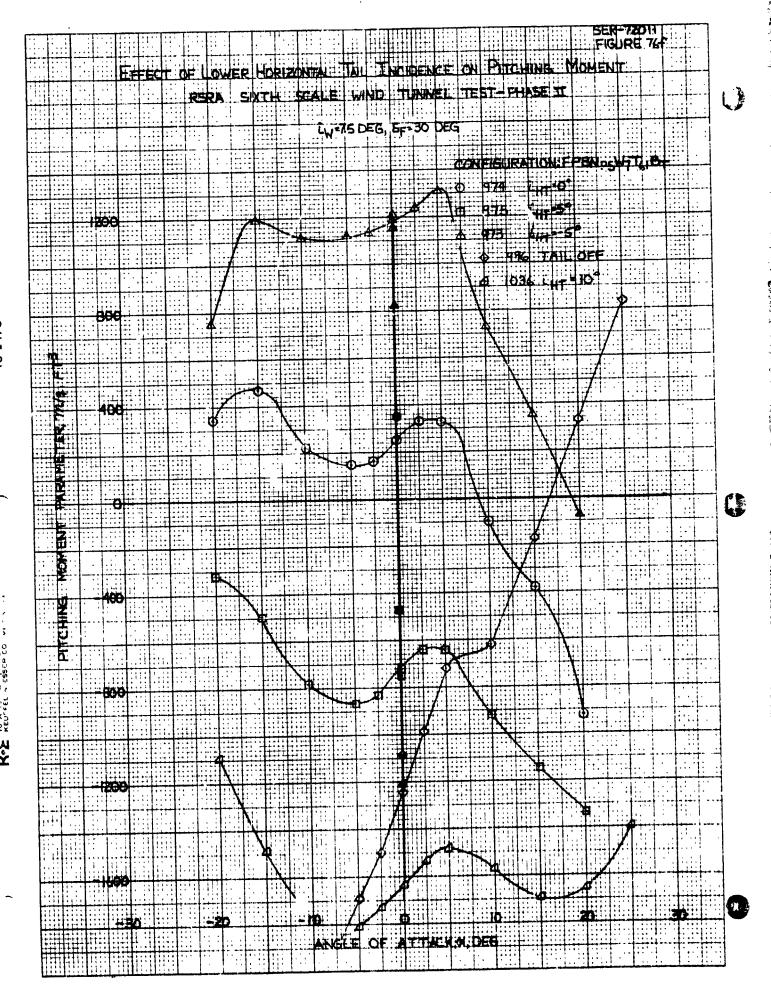


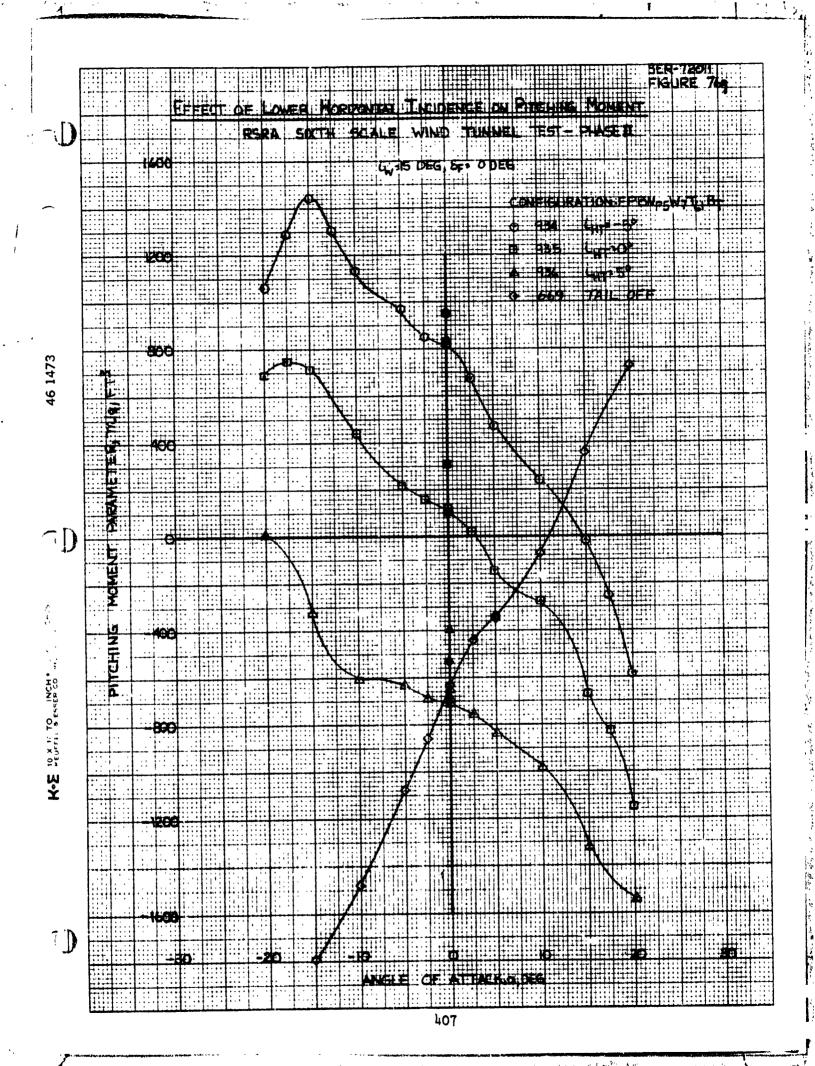
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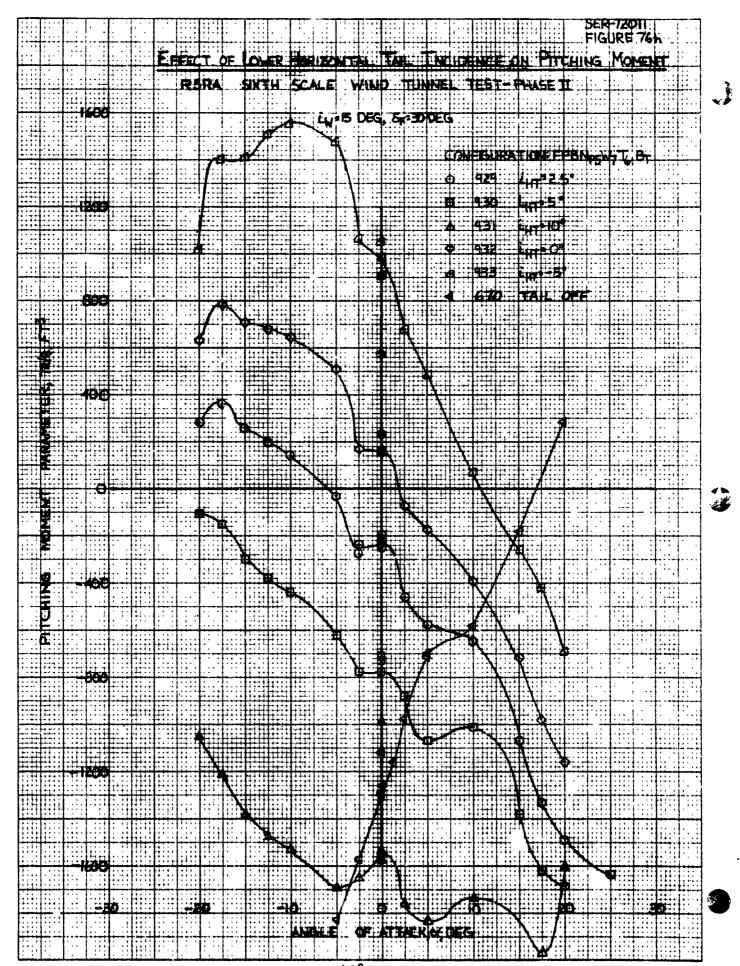






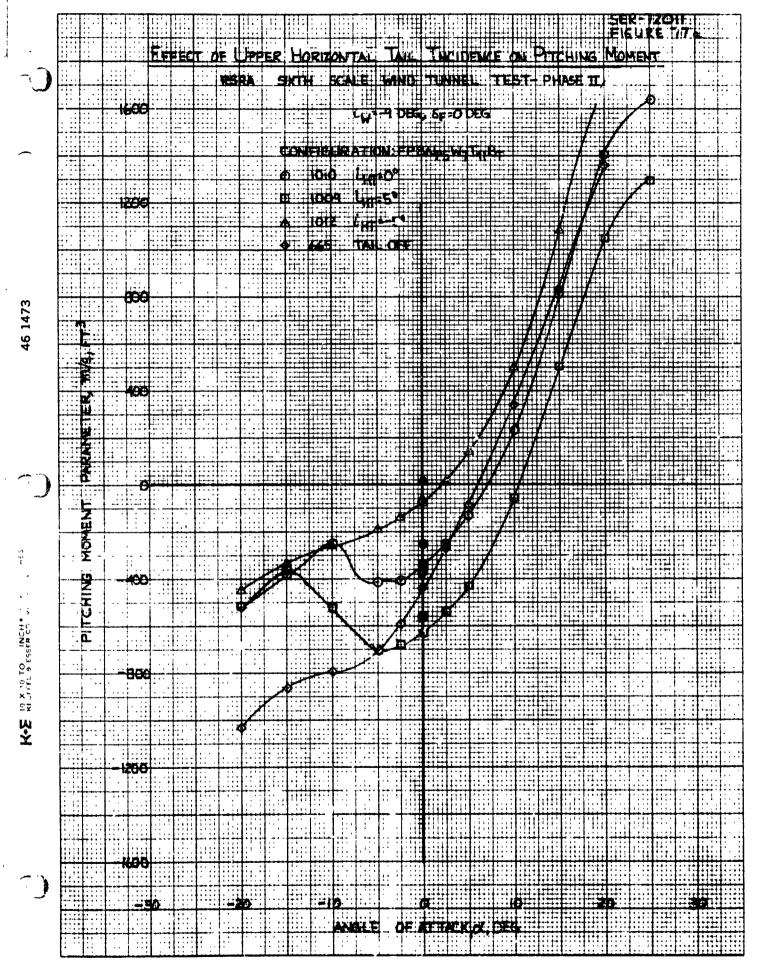


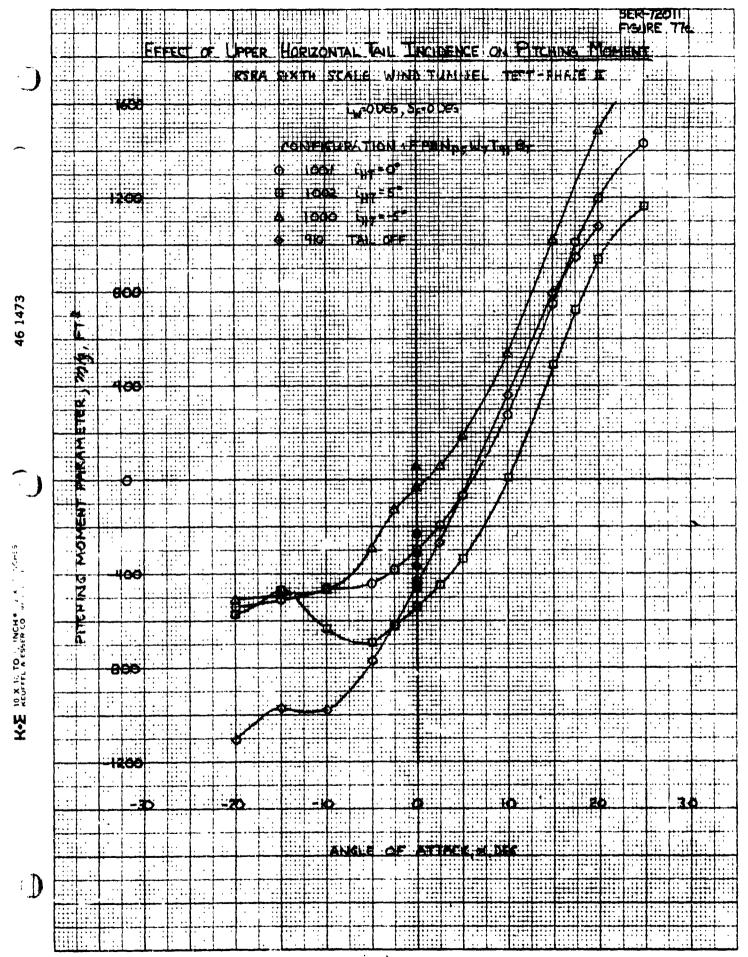


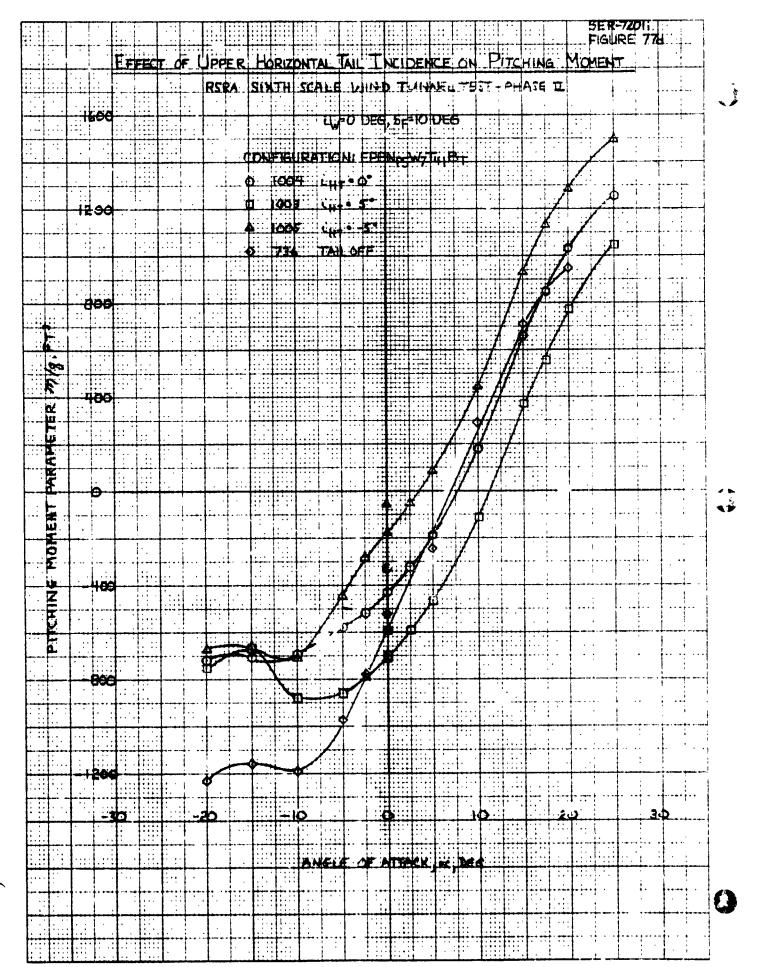


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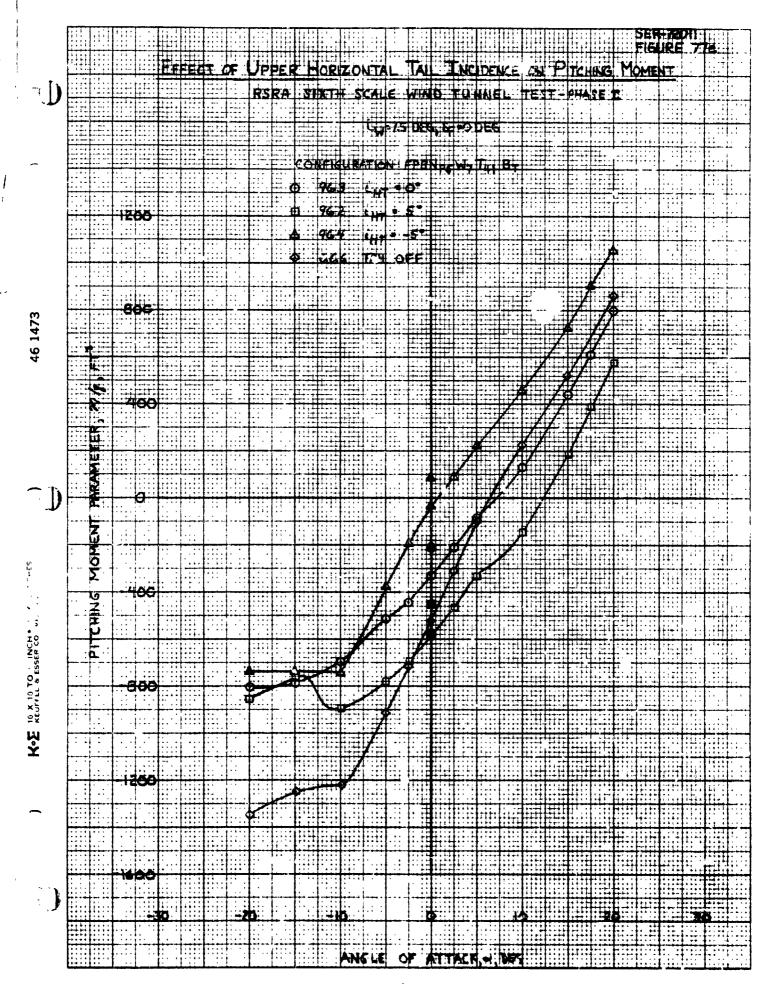
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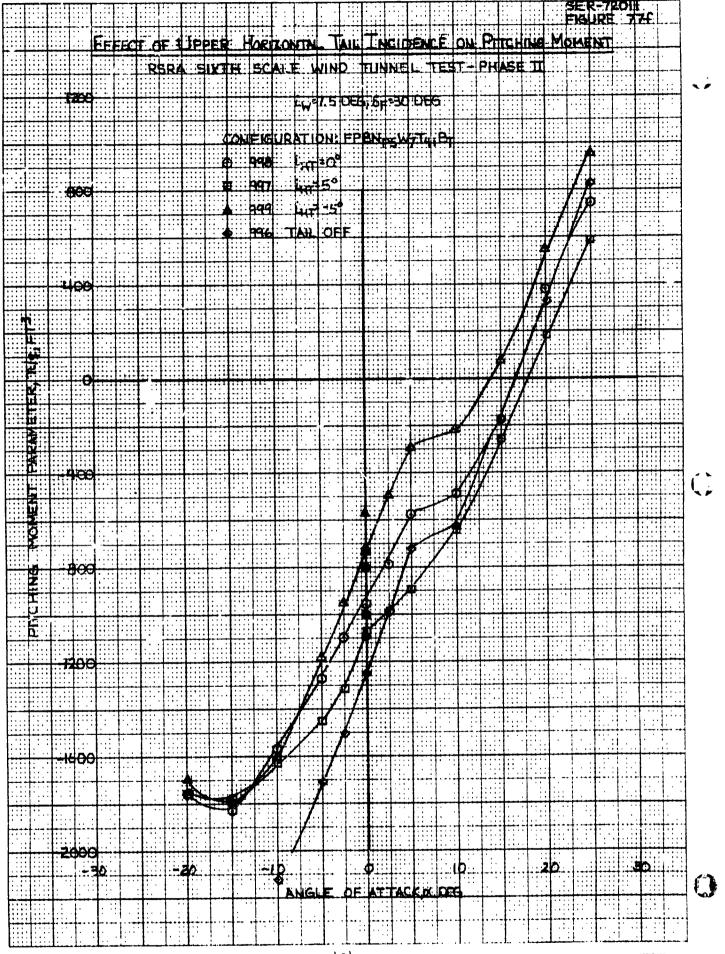






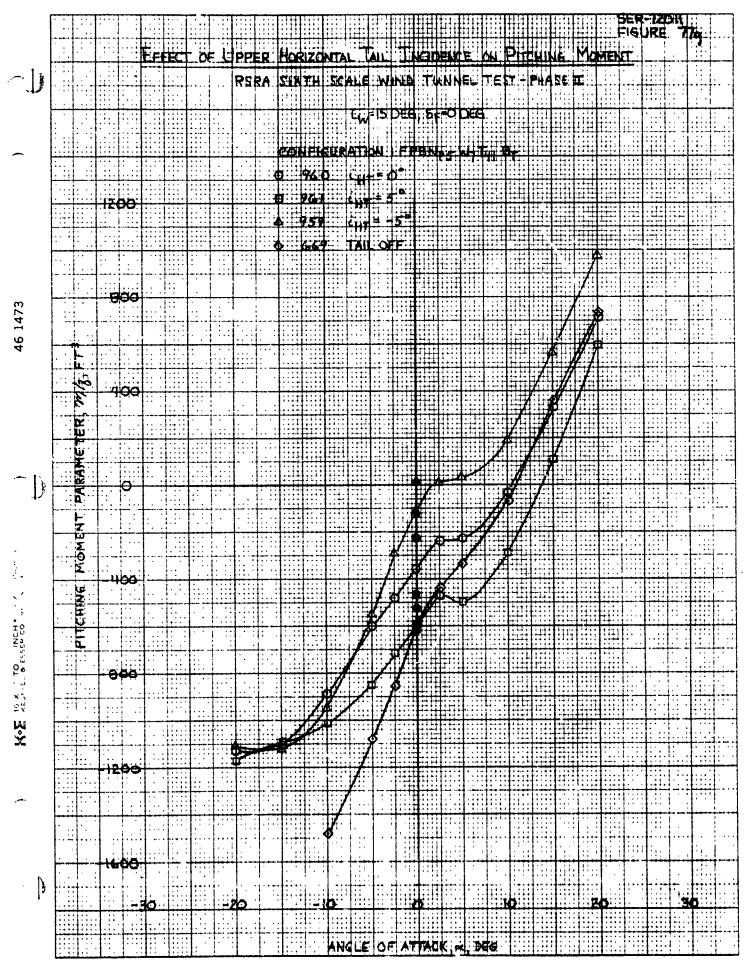
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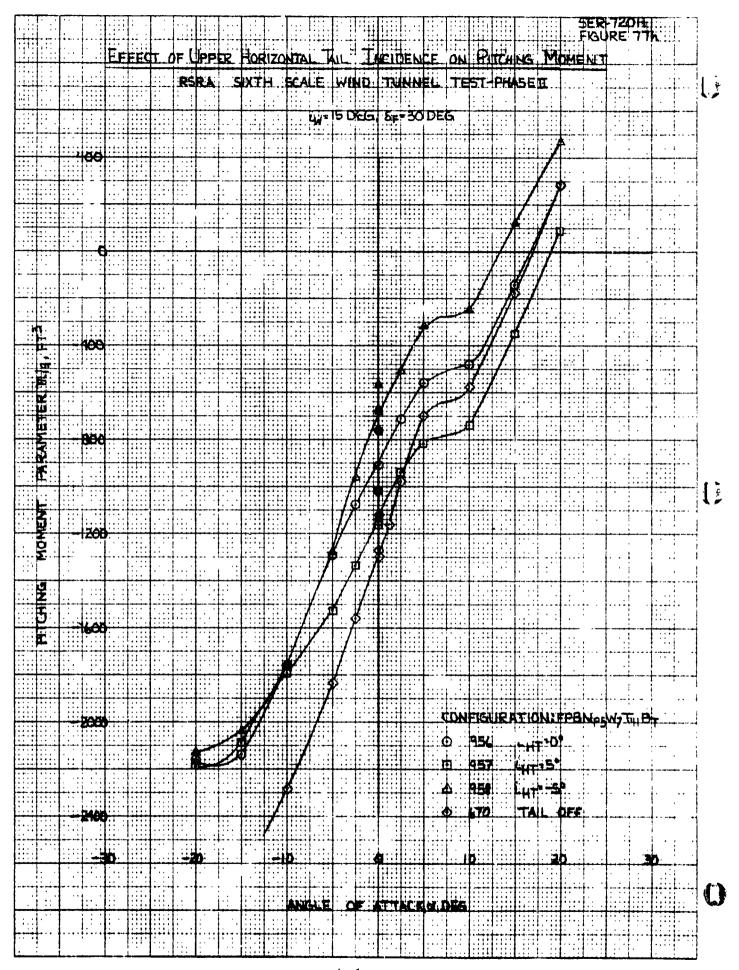


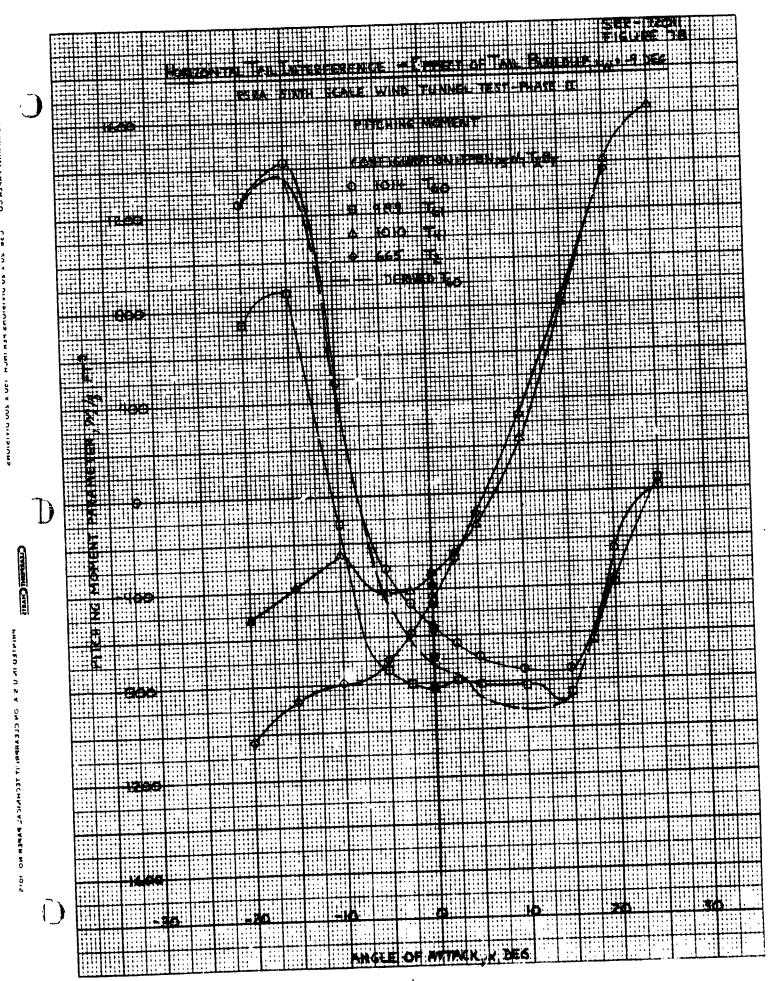


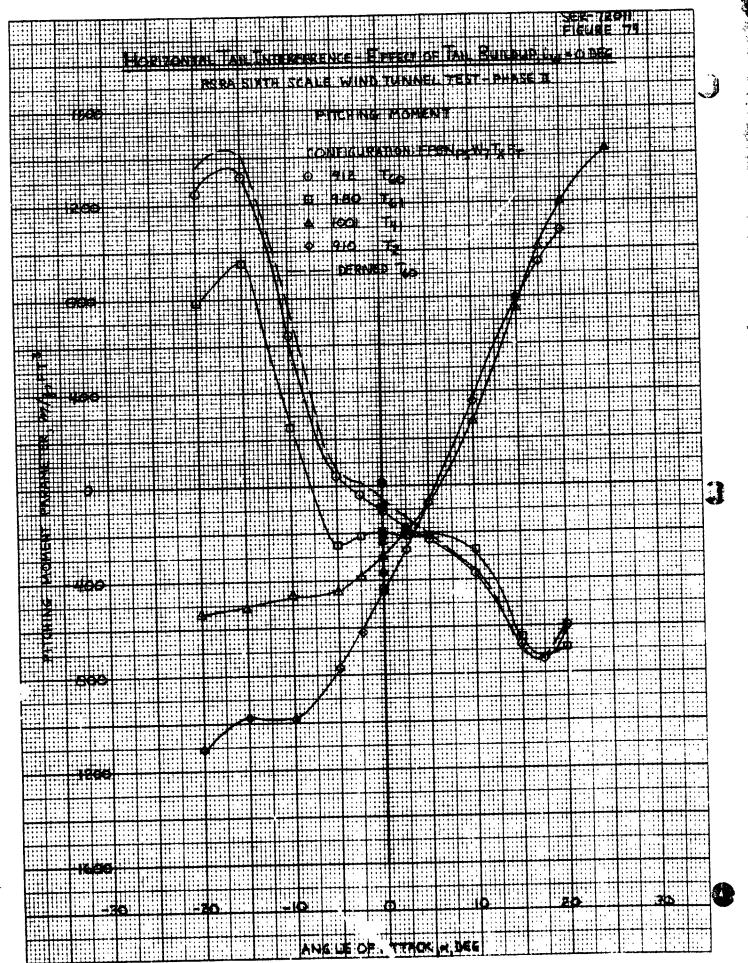
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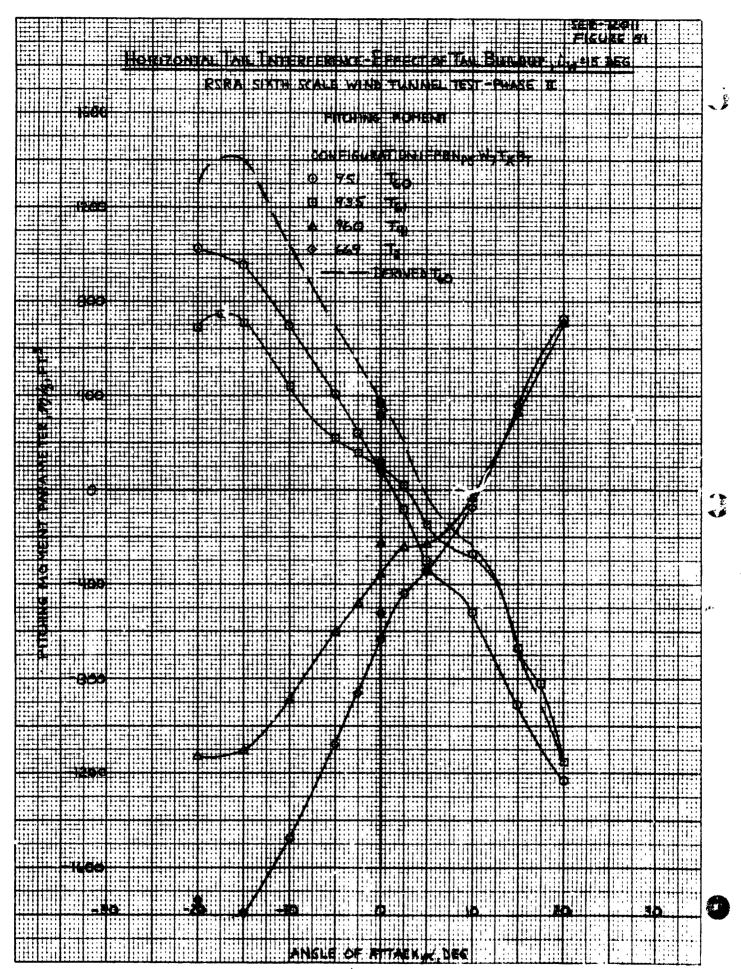
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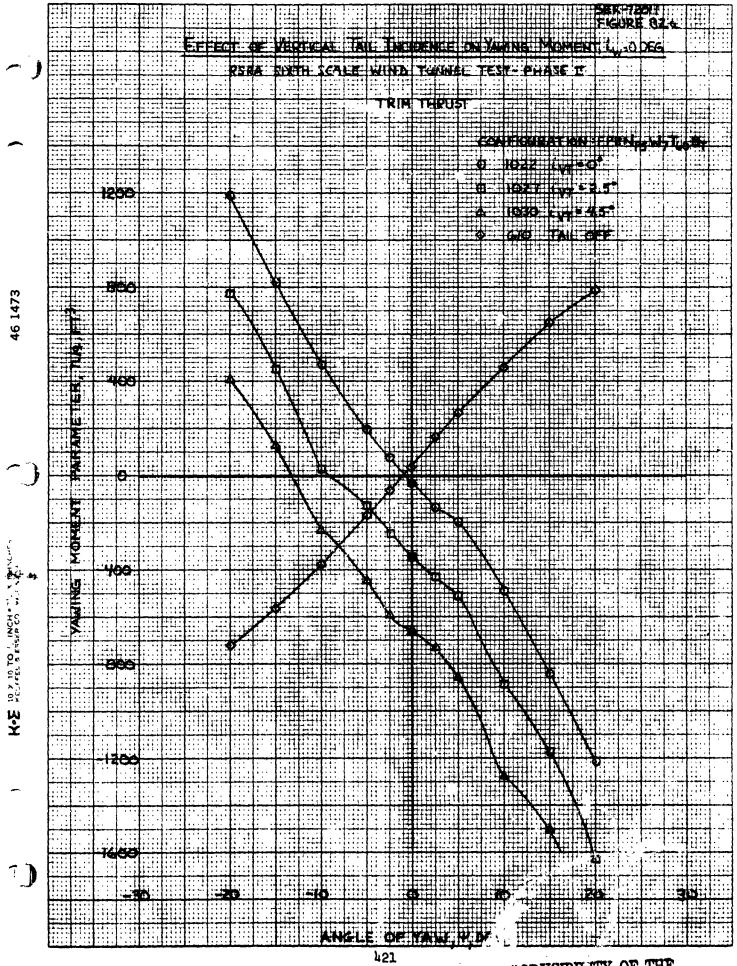




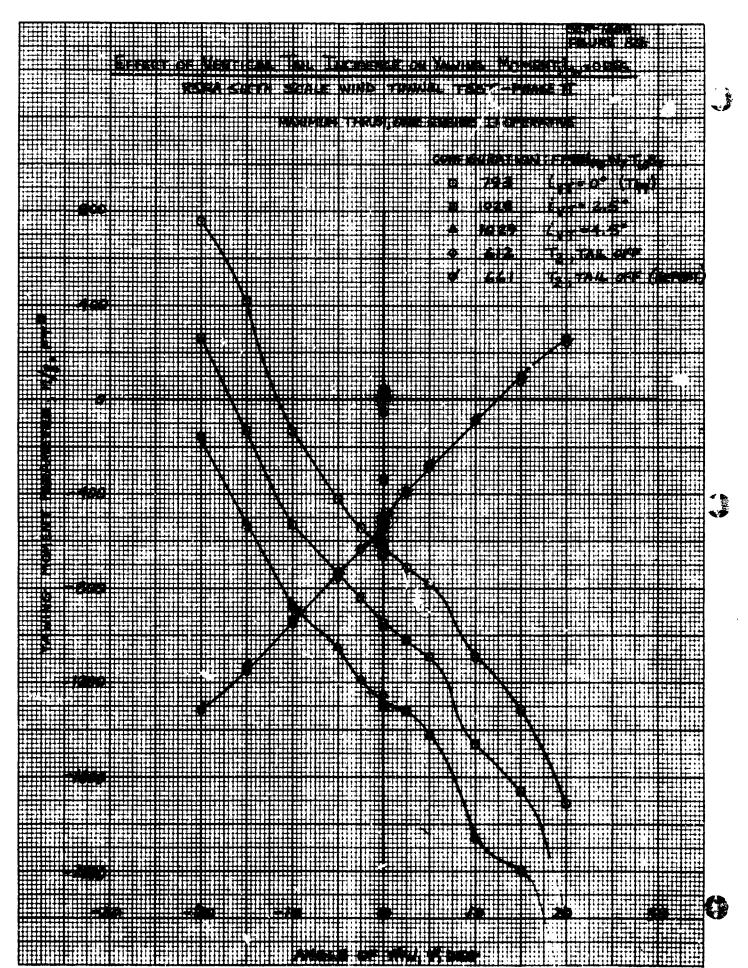


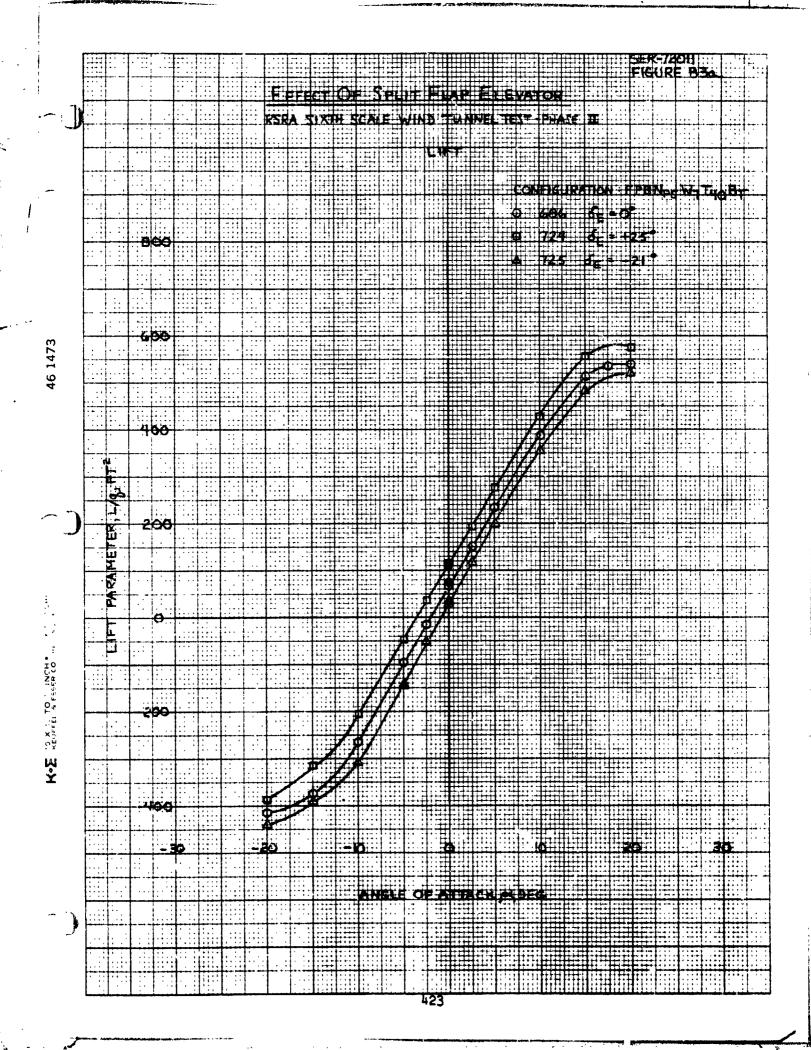




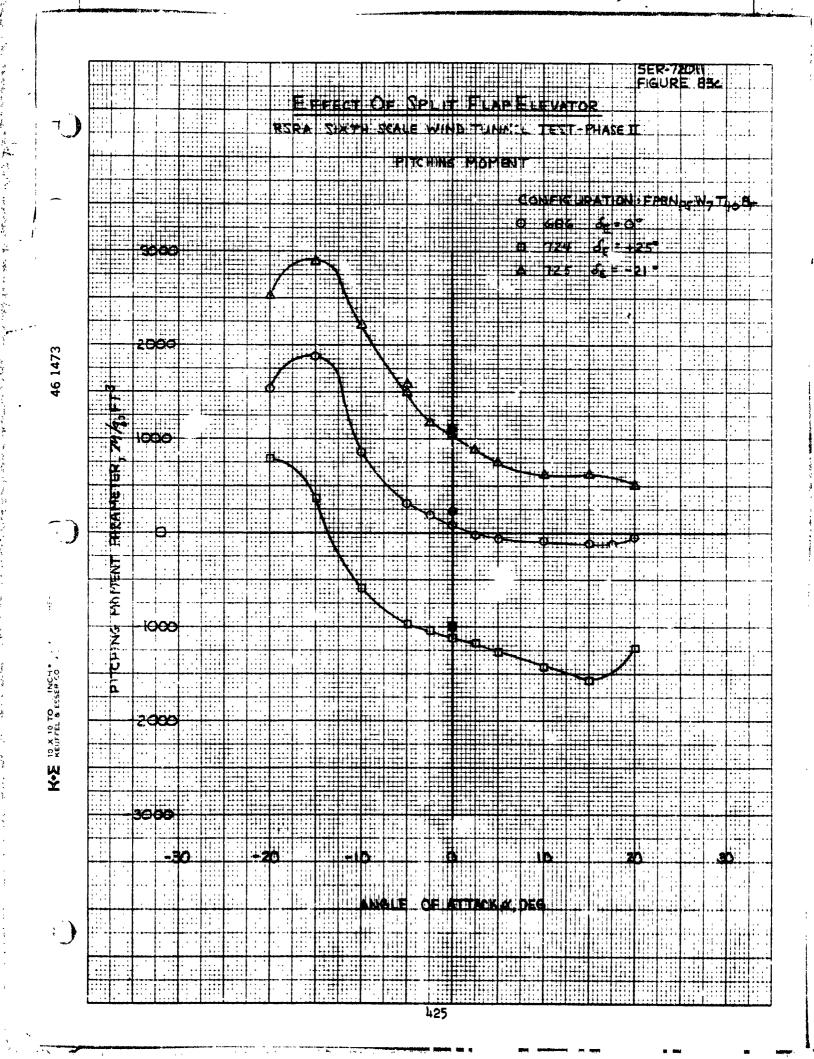


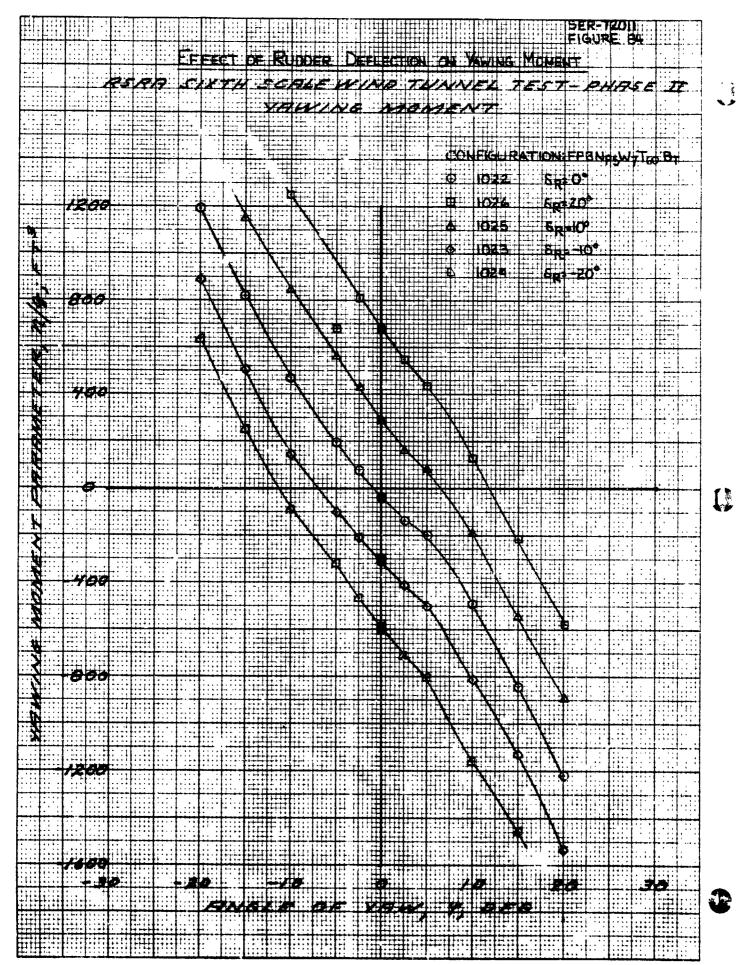
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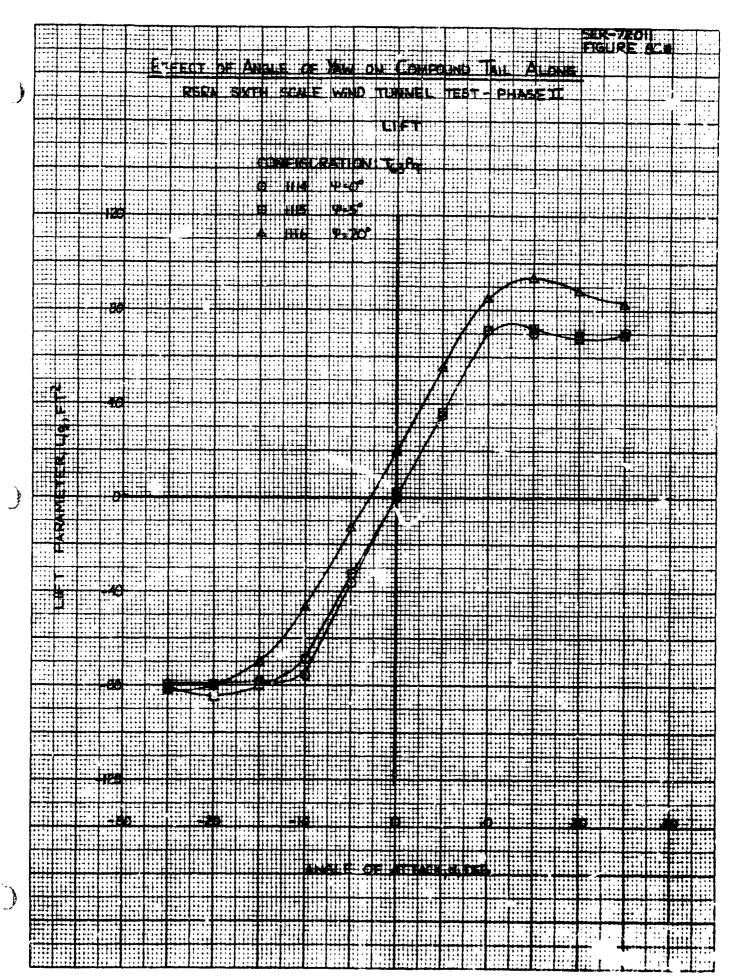


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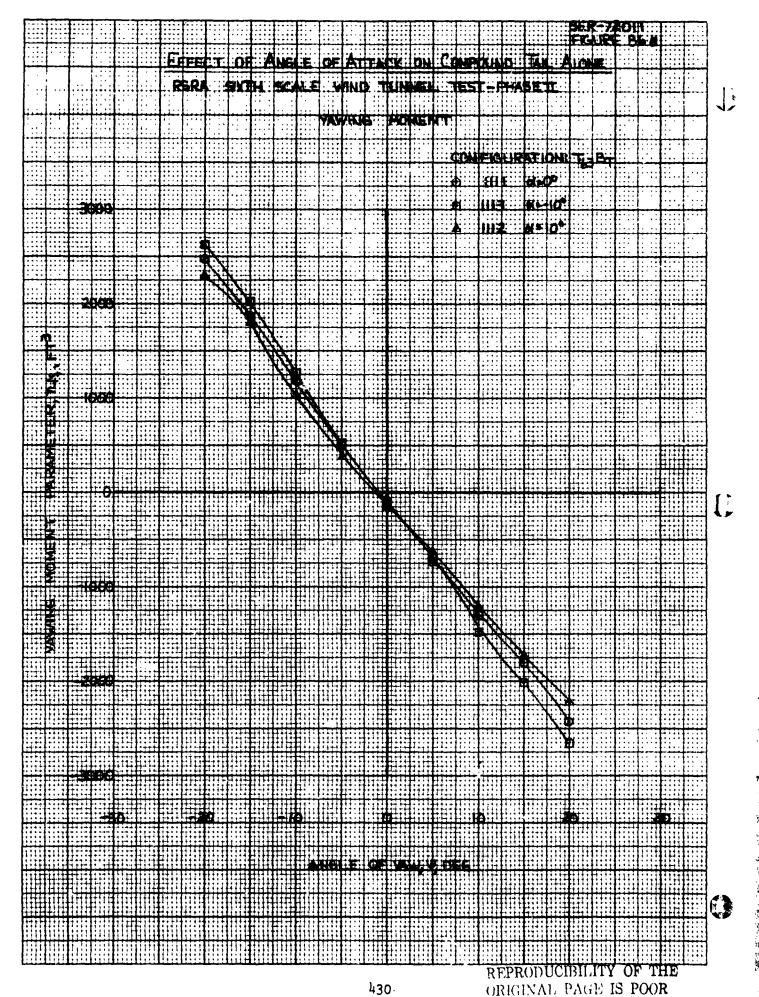


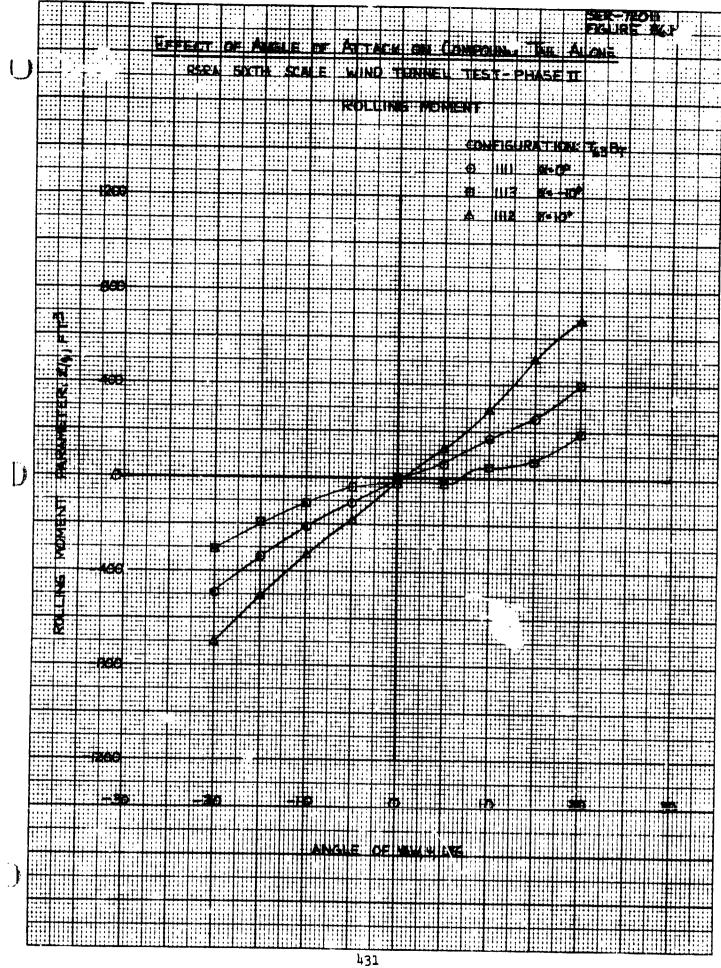
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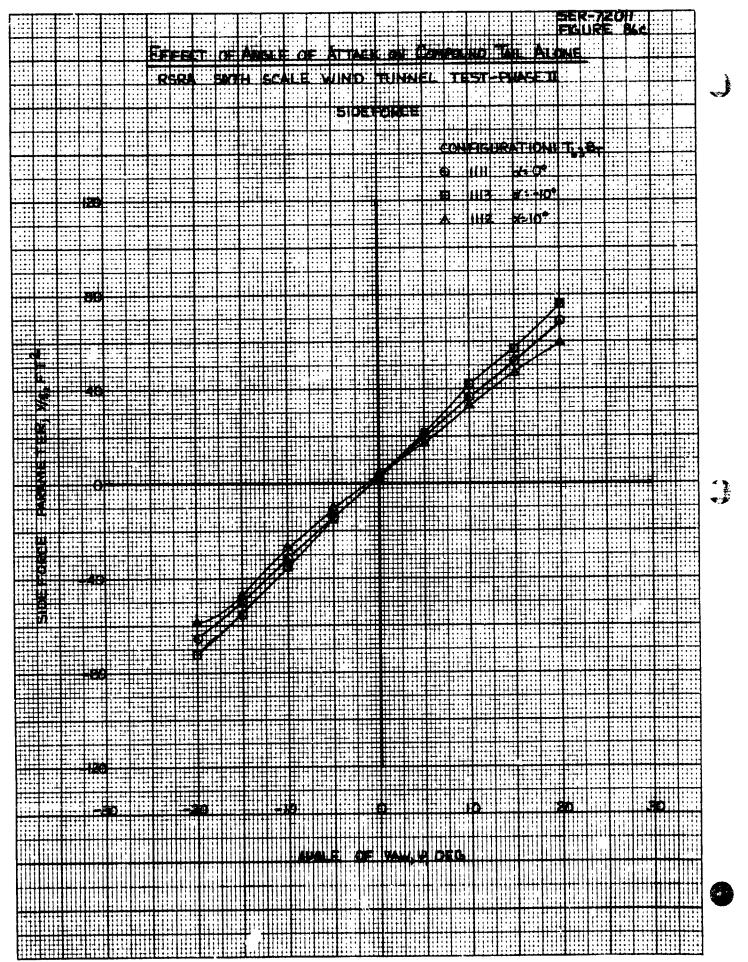
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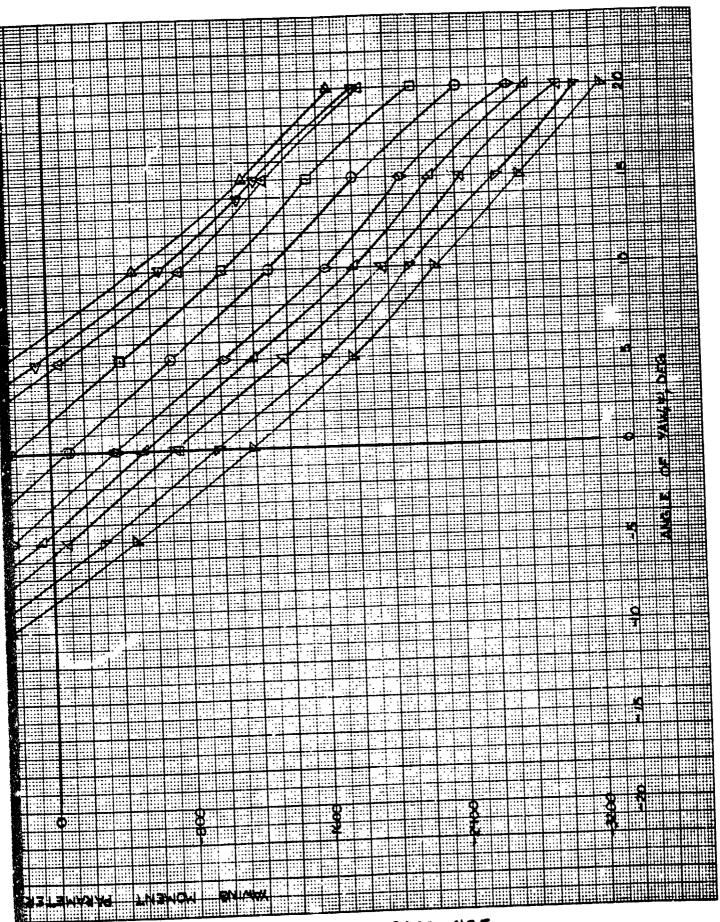
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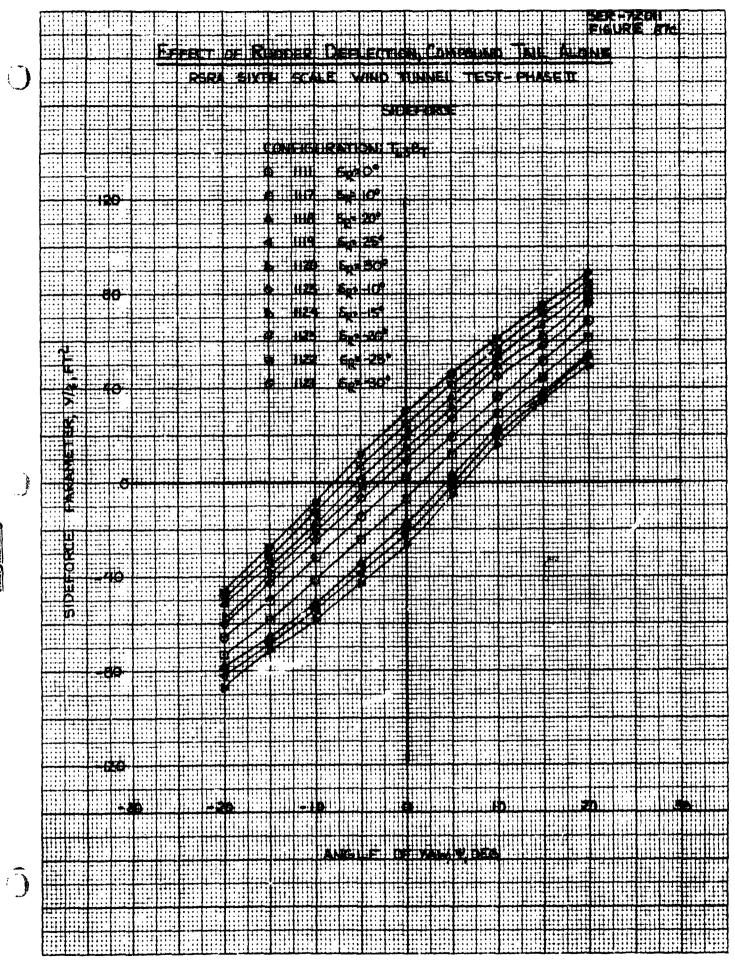
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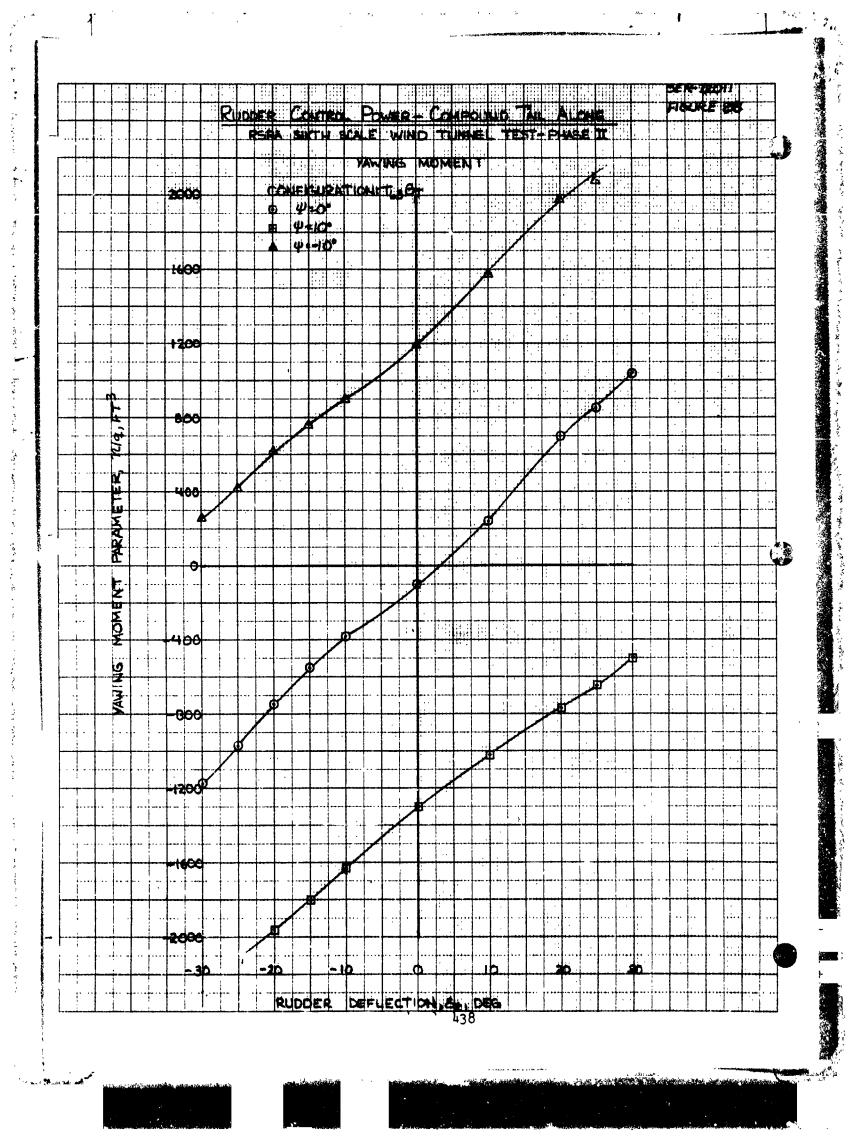
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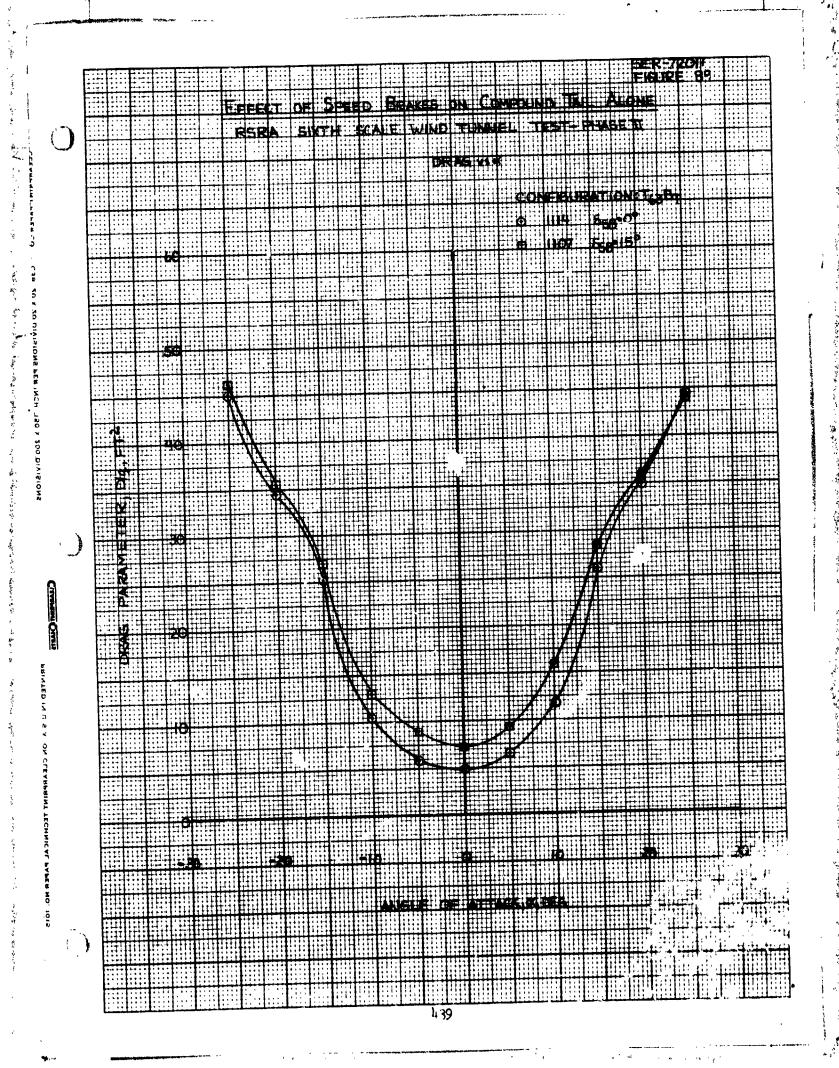
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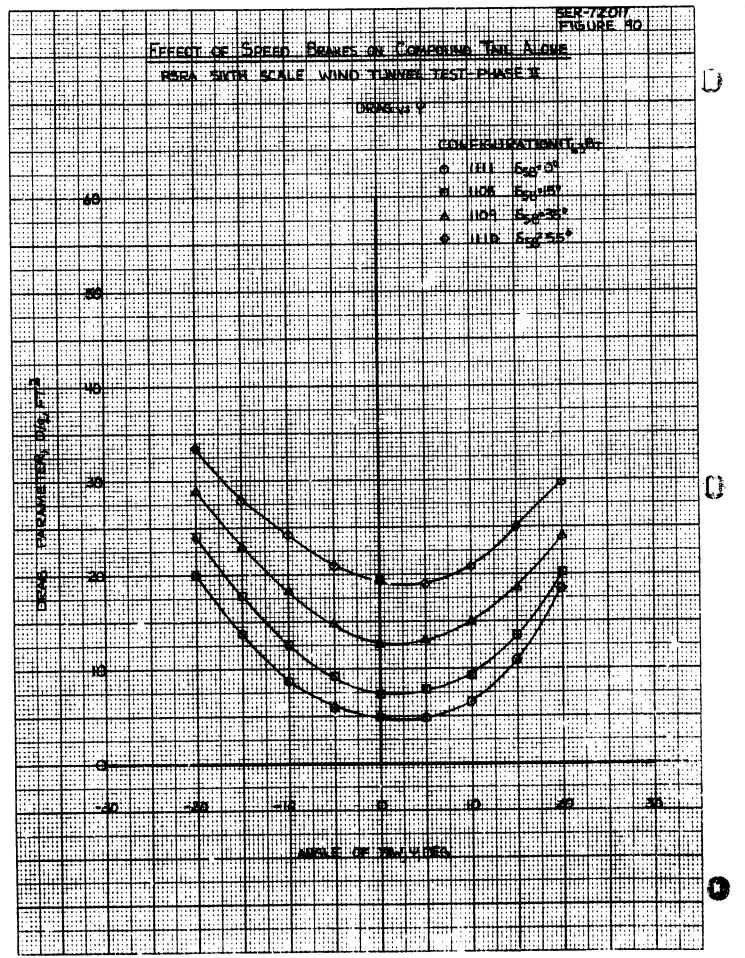


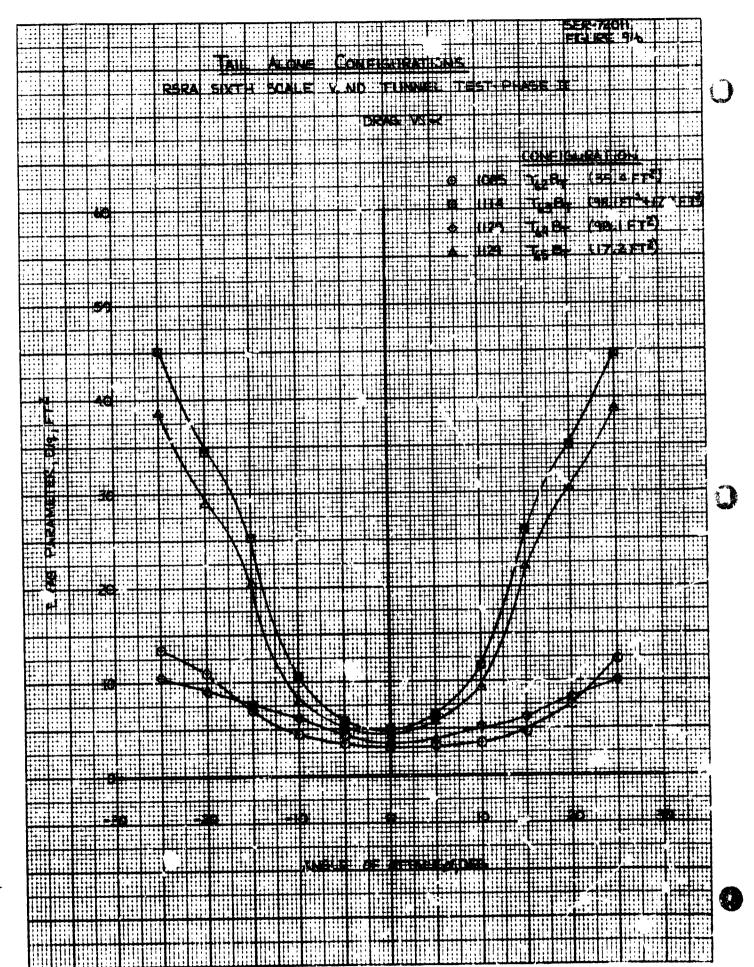
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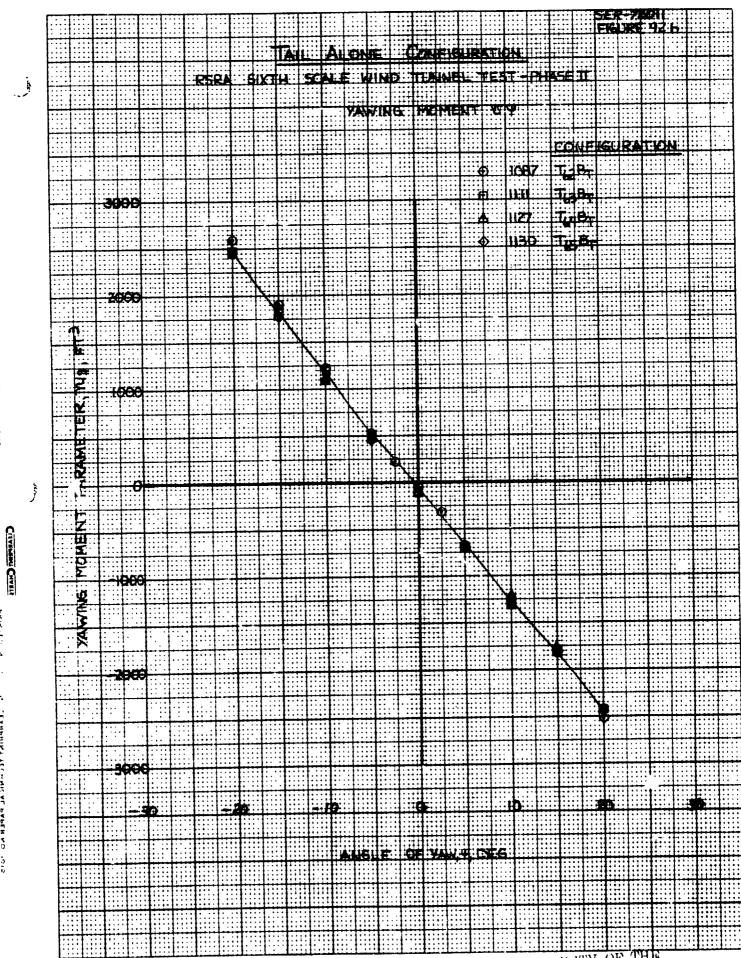






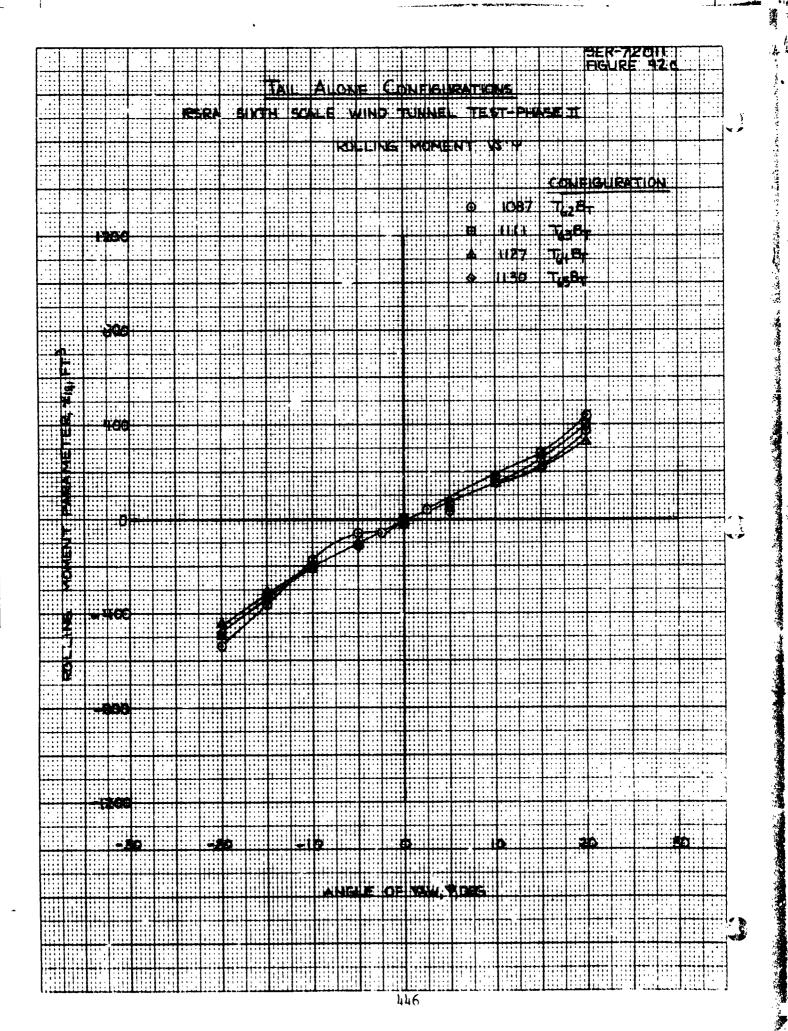
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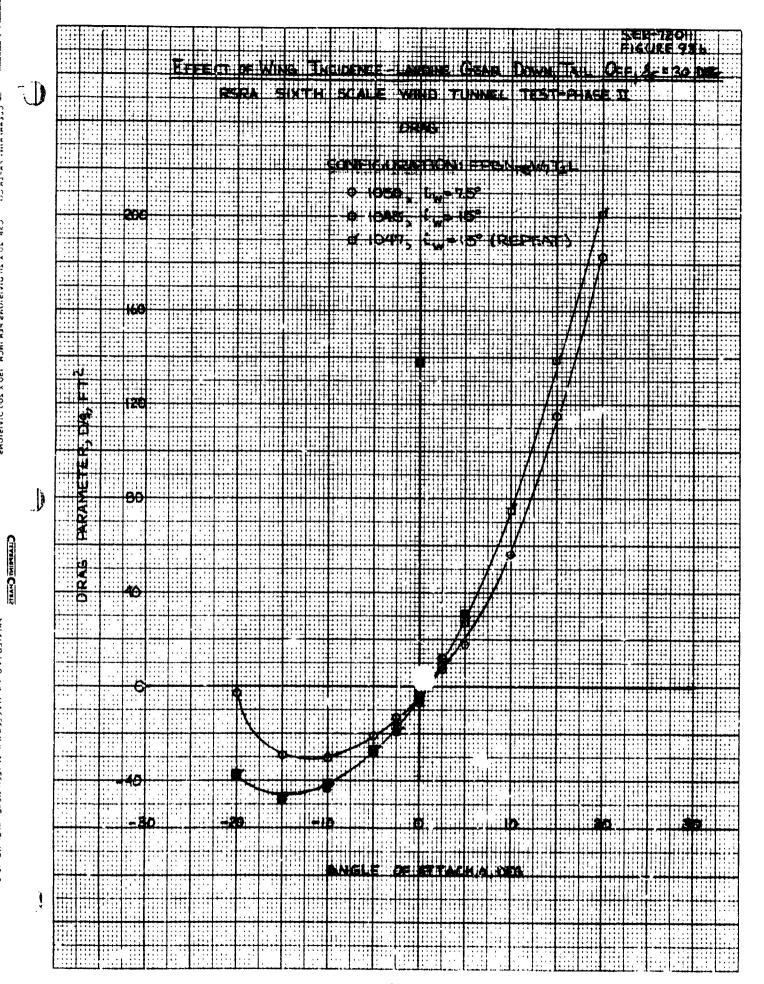


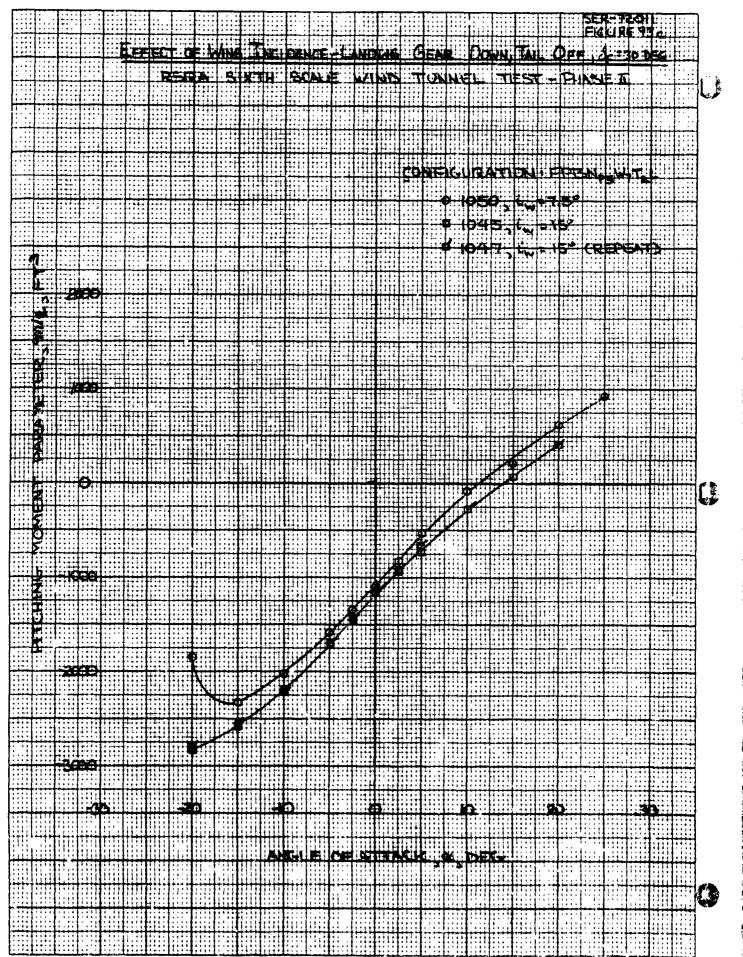
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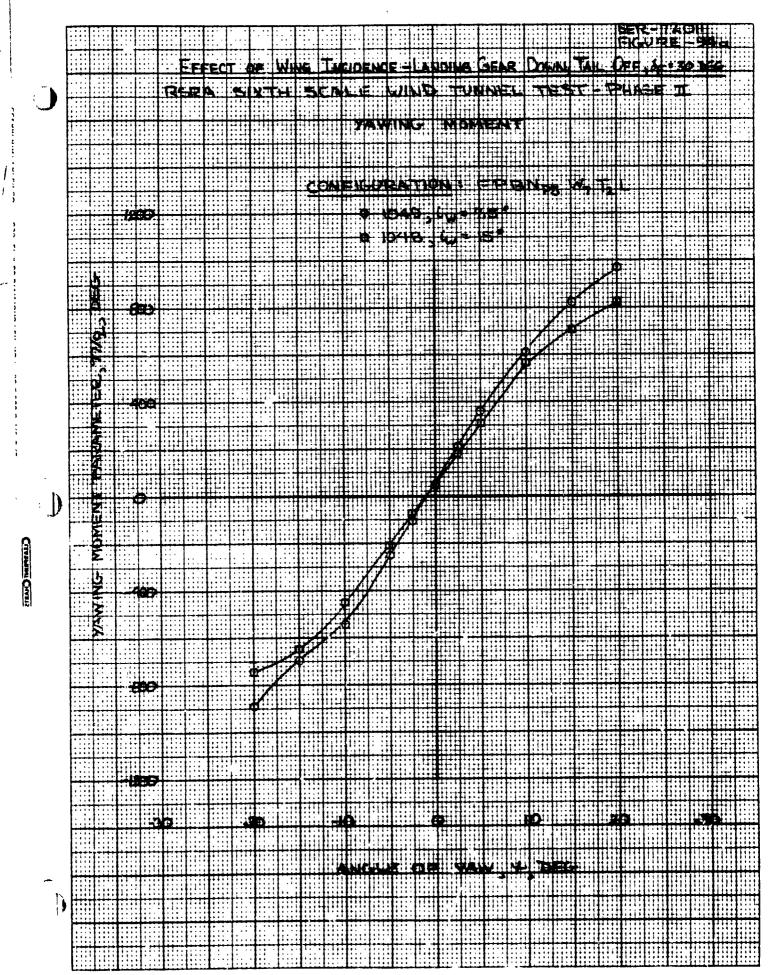
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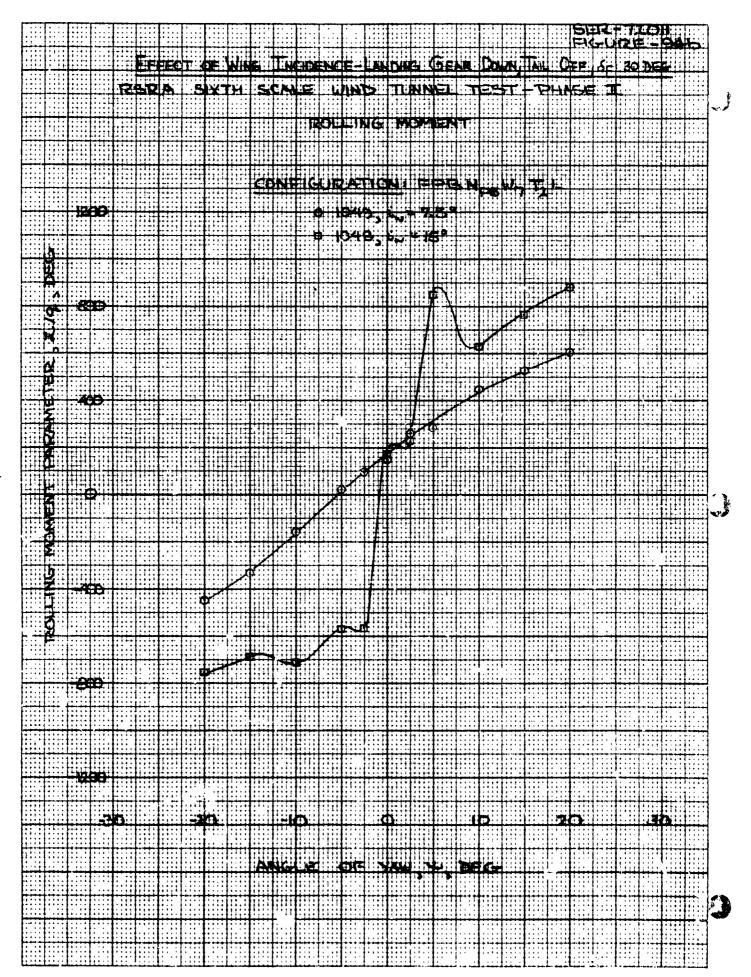


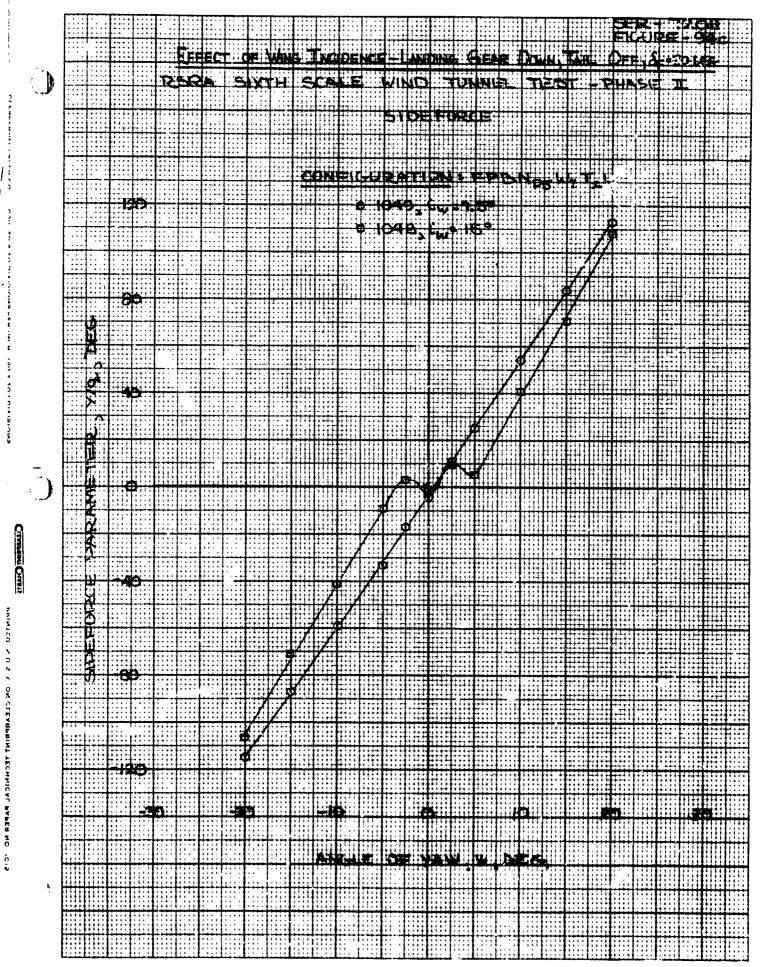
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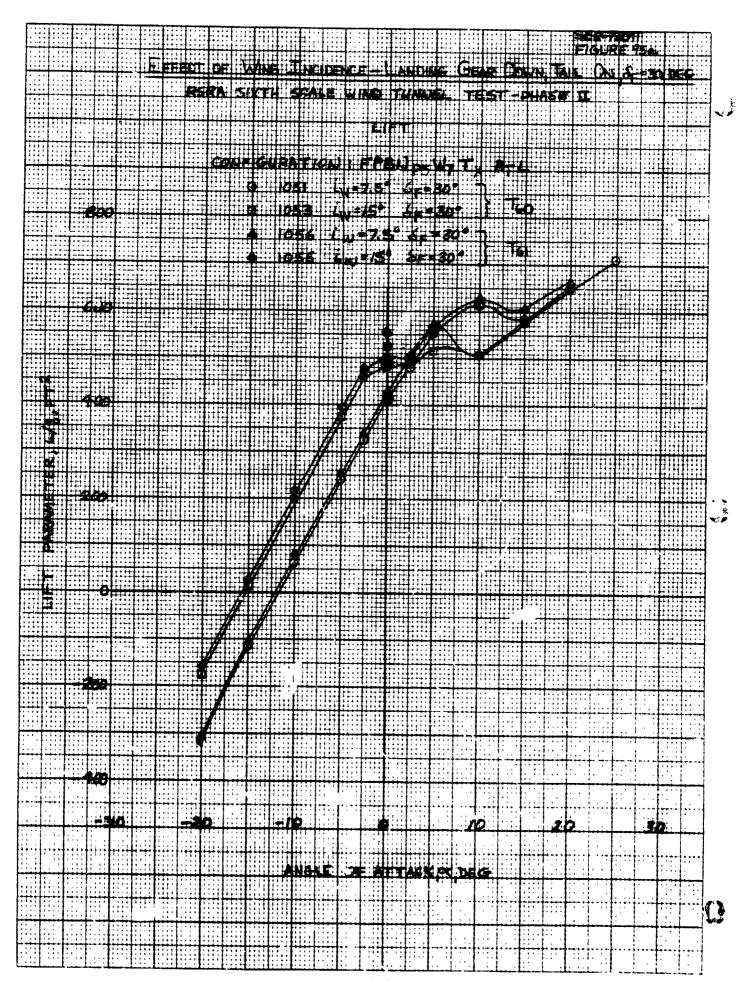








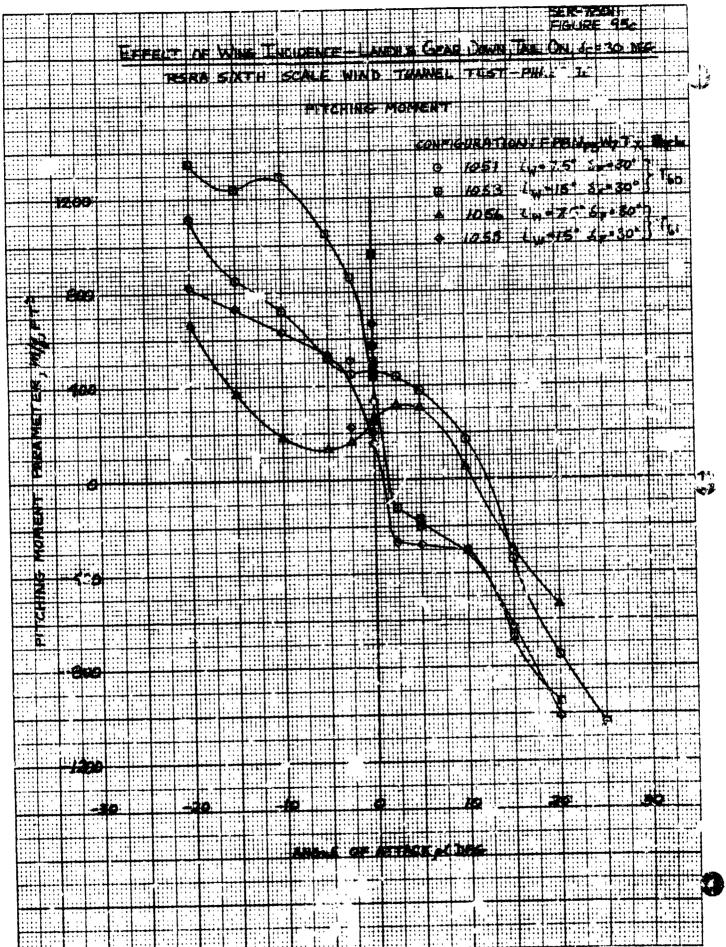




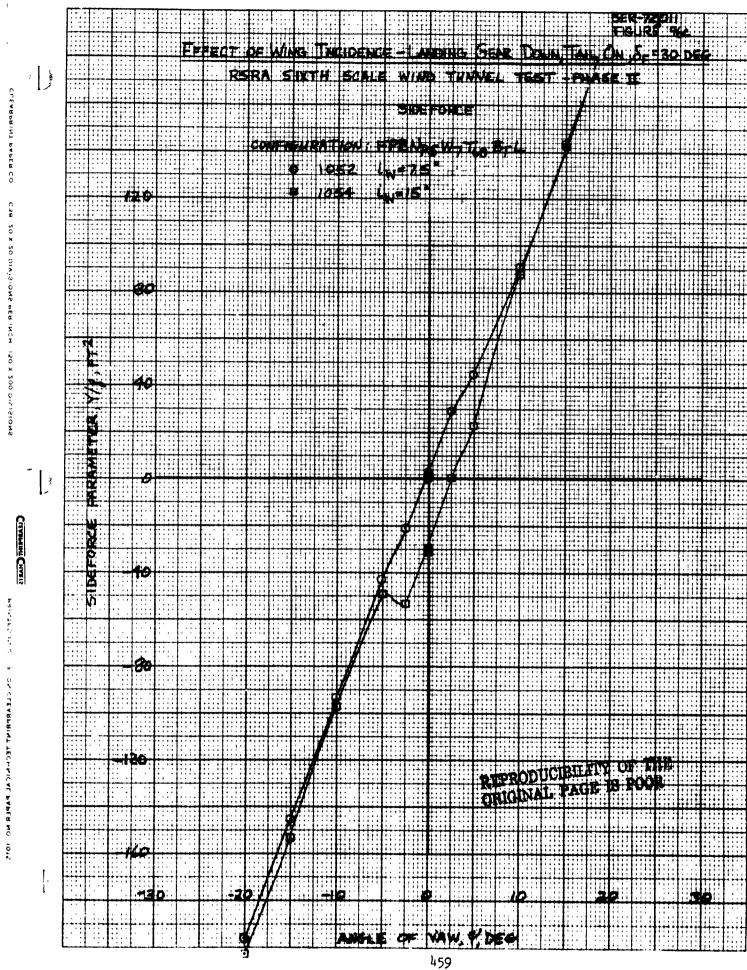
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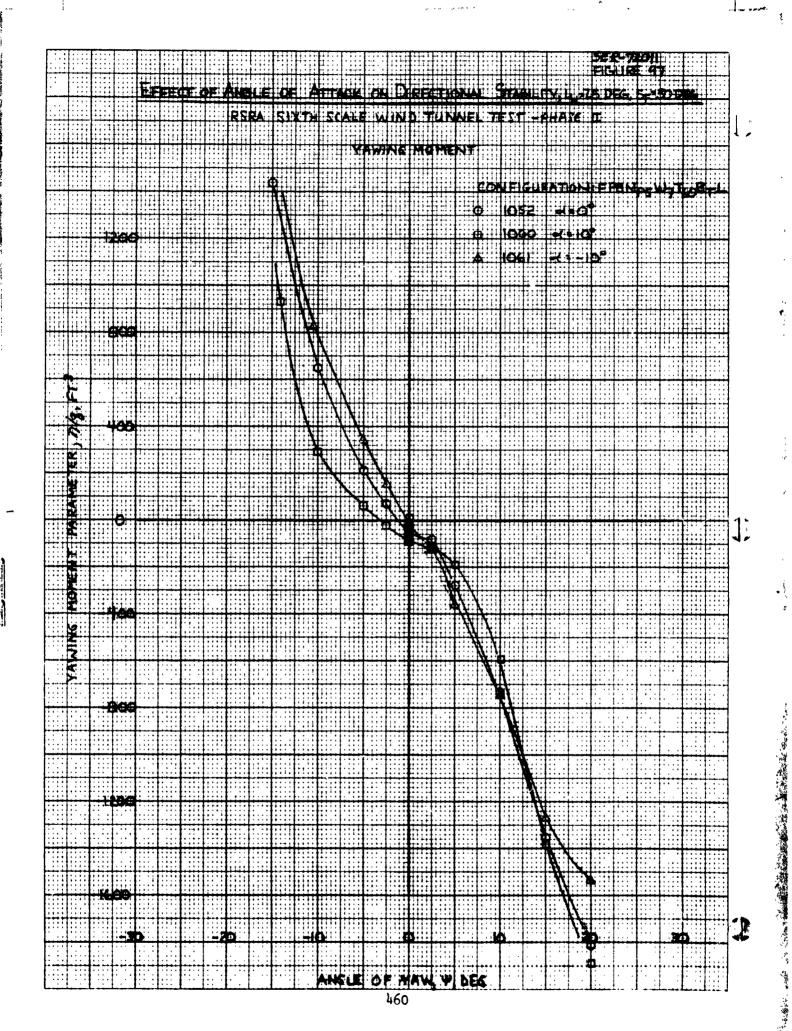
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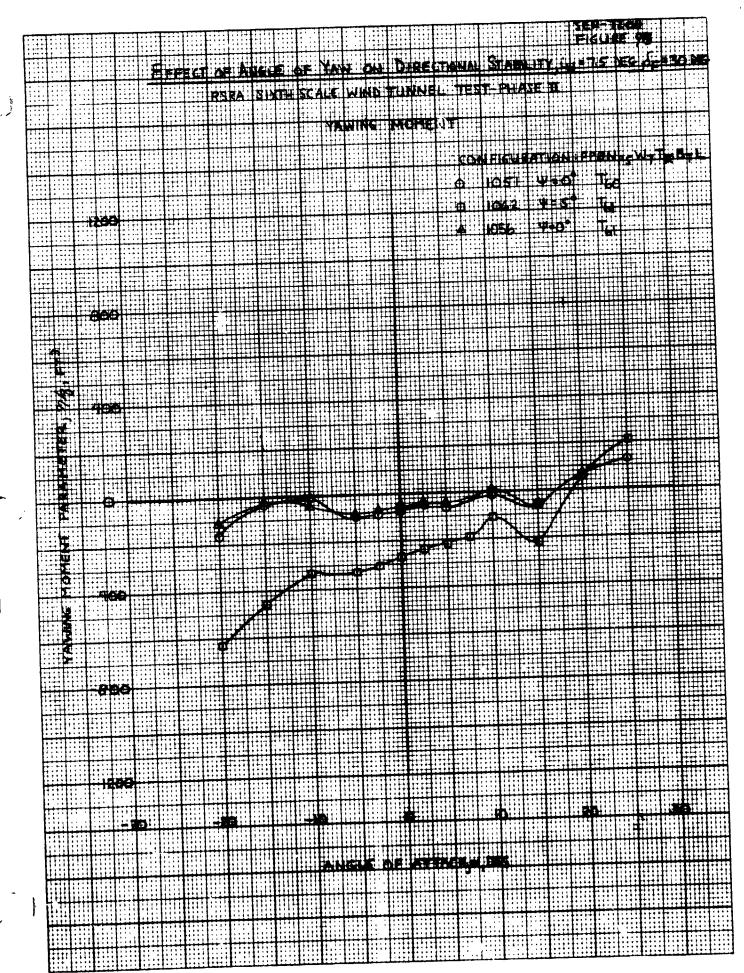
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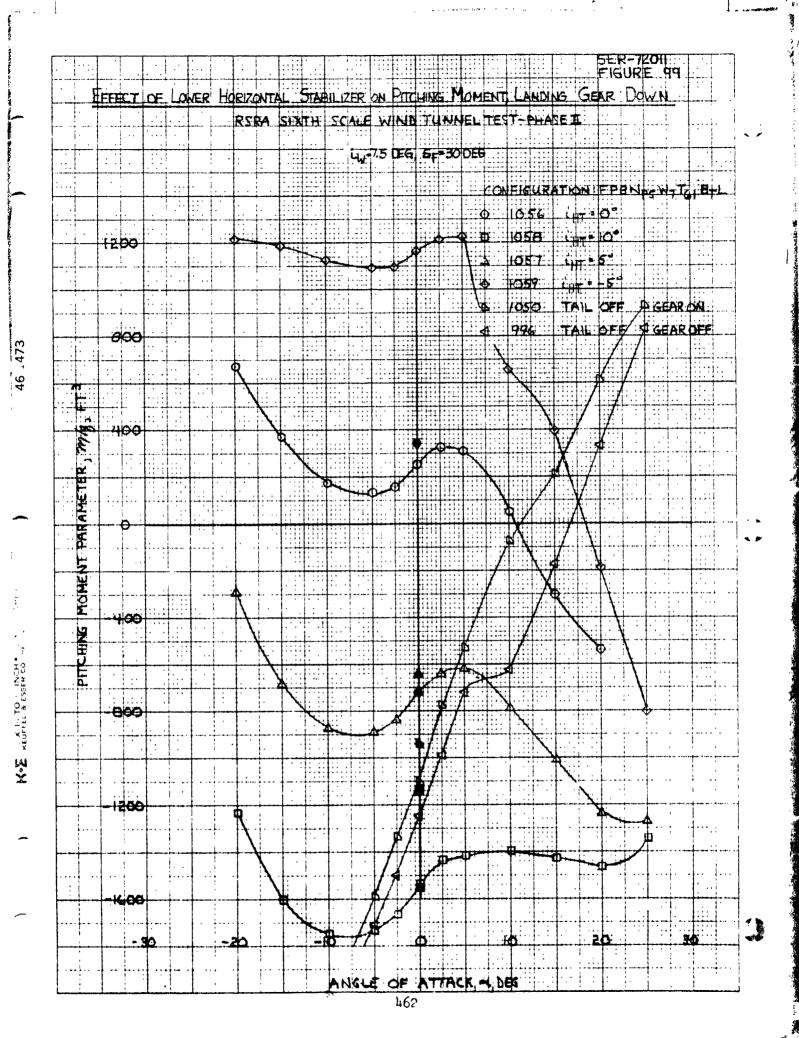


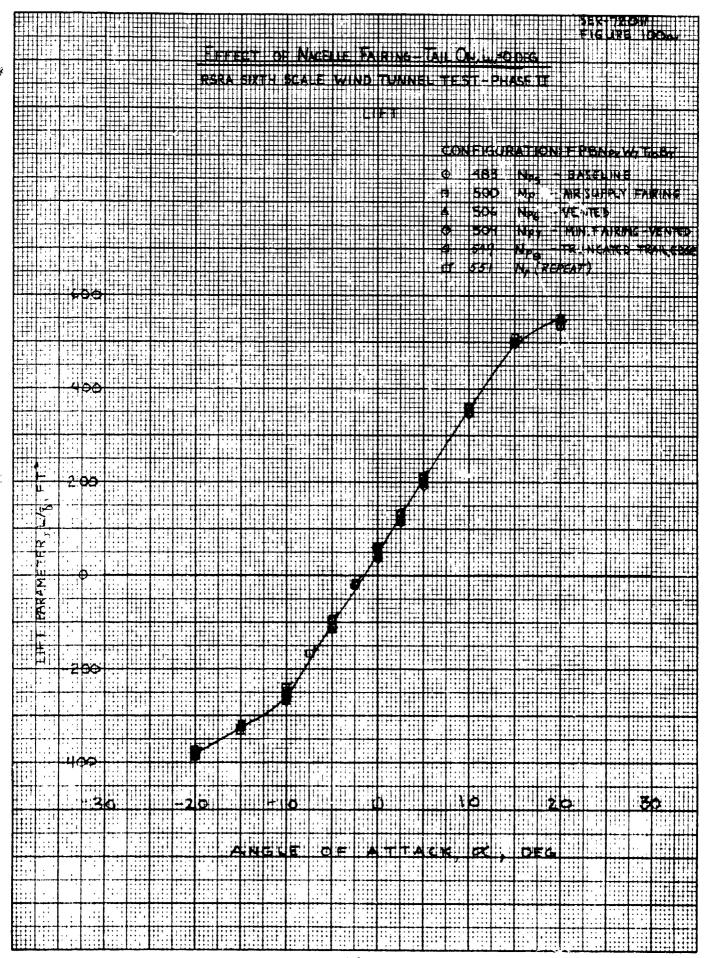
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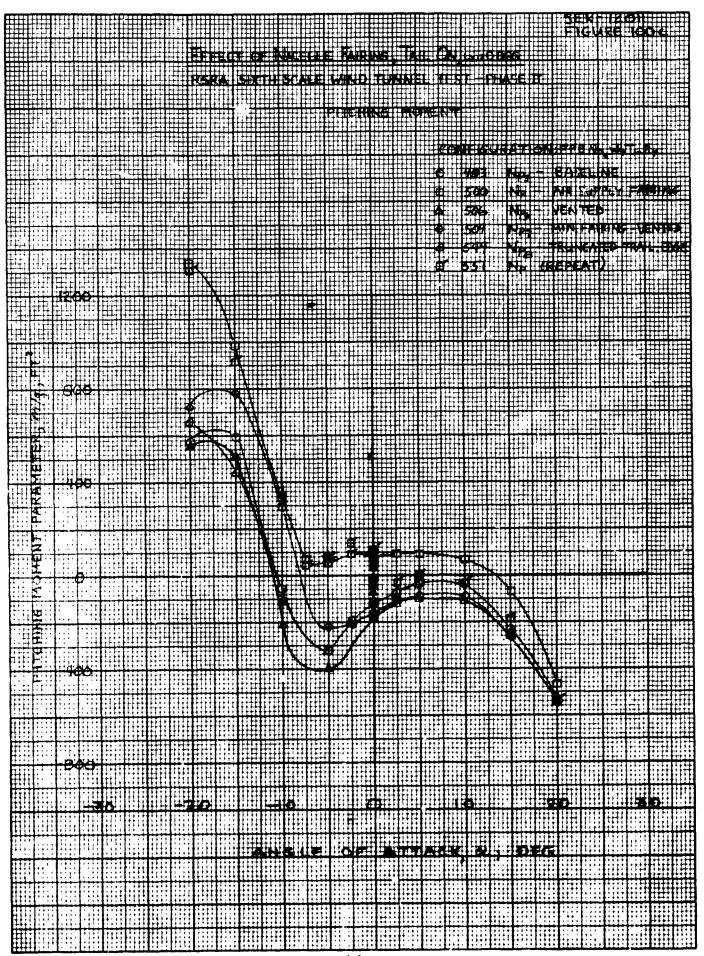




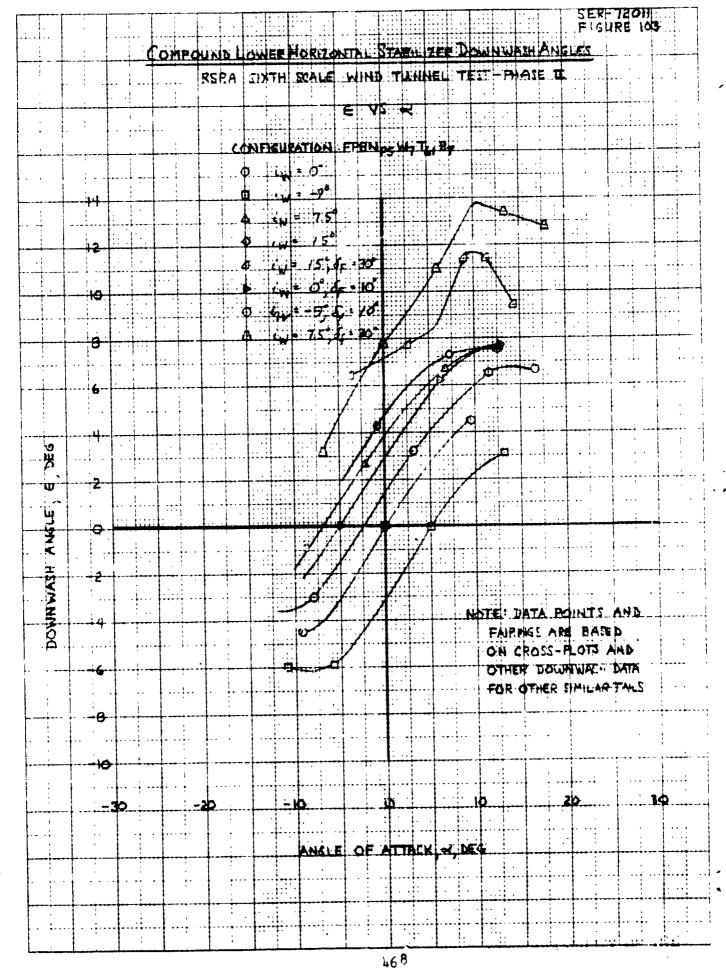
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SER-72011 FIGURE 104 COMPOUND LOUISE HORIZONTAL STABIL TES DOWNWAS ANGLES RSRA SINTH SCALE WIND THINKEL TEST - PHASE IL CONFIGURATION : FPANGEWOTE BY E, DEG ANGLE, DOWNWASH Y 160 1.20 .80 LIFT COEFFICIENT C. 1,19

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Run 77 - WN,  $I_W = 10$ ,  $\alpha = 5$ 

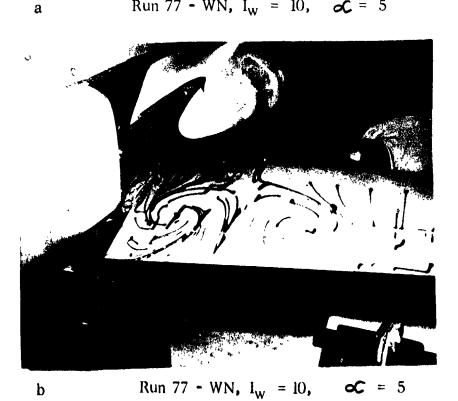


Figure 107. Wing Oil Flow Patterns - Unpowered.

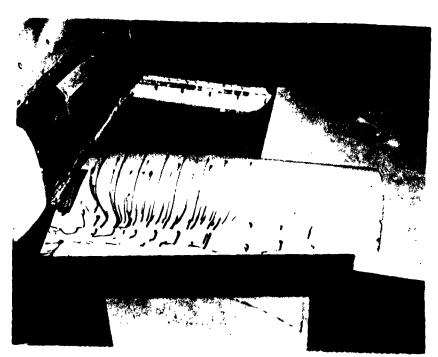
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Run 78 - W,  $I_W = 10$ , C = 5



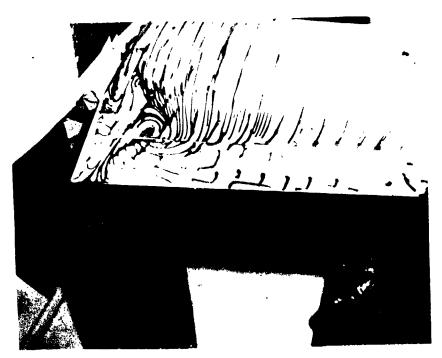
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Figure 107 - Continued

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Run 79 - W,  $I_{W} = 15$ ,  $\alpha = 5$ 

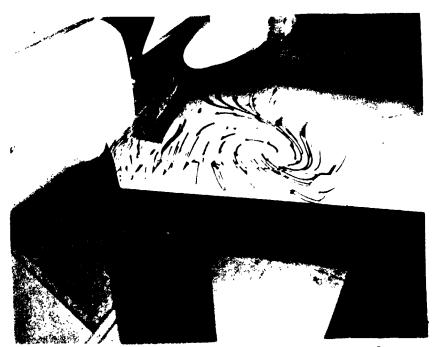


Run 80 -  $W_1N$ ,  $I_w = 15$ ,  $\alpha = 0$ 

Figure 107 - Continued

## Sikorsky Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION

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Run 80 -  $W_1N$ ,  $I_W = 15$ ,  $\ll = 0$ 

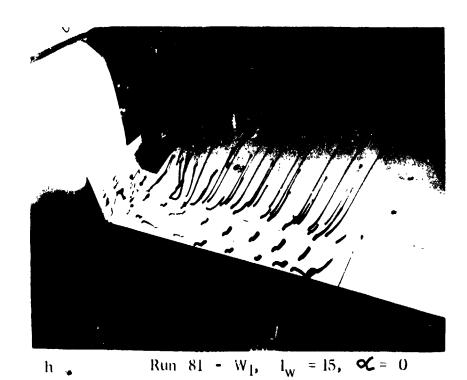


Figure 107 - Continued

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Run 83 -  $W_1$ ,  $I_w = 15$ ,  $\sim 2.5$ 

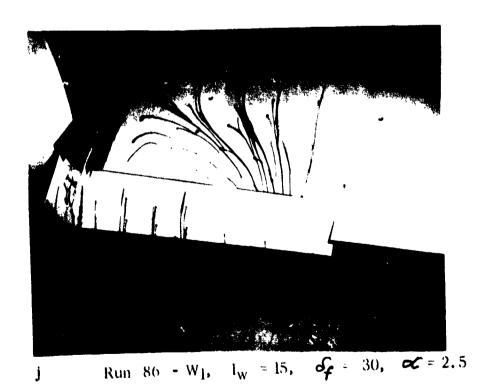


Figure 107 - Continued

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Run 92 -  $W_1N$ ,  $I_W = 15$ , = 0

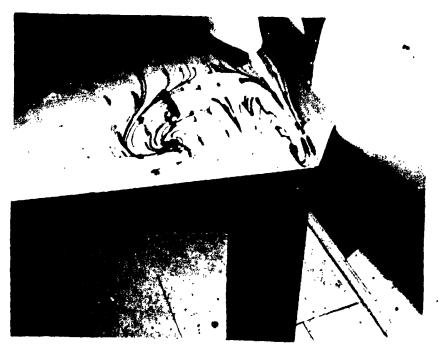


Run 92 - W<sub>1</sub>N,  $l_{w} = 15$ ,  $\alpha = 0$ 

Frgure 107 - Continued

### Sikorsky Aircraft DIVIBION OF UNITED AMERICAN CORPORATION A BY

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Run 97 -  $W_1N$ ,  $I_W = 15$ ,  $\sim c = 0$ 



Run 97 -  $W_1N$ ,  $I_W = 15$ ,  $\alpha = 0$ 

Figure 107 - Continued

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Run 103,  $W_1^{1}$ ,  $I_W = 15$ ,  $S_F = 25$ , C = 0

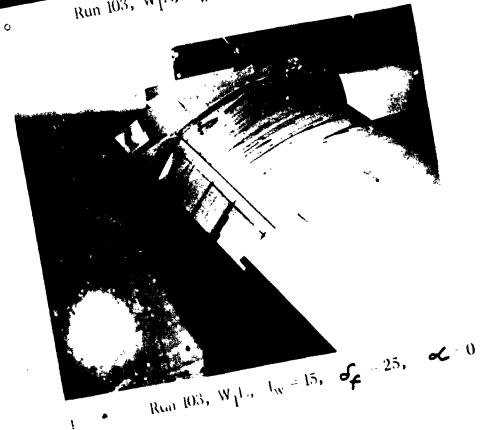


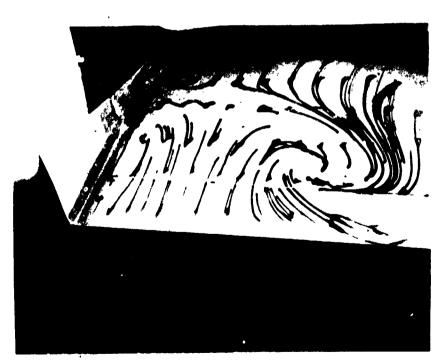
Figure 107 - Continued

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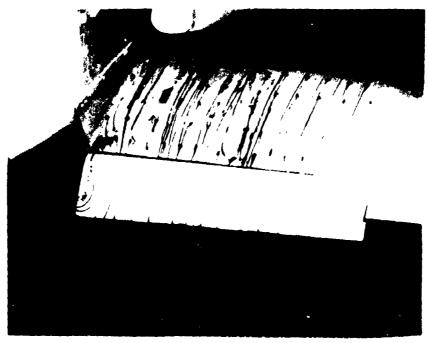


Run 109,  $W_1N + Spoiler$ ,  $I_w = 15$ ,  $\alpha = 0$ 



Run 109,  $W_1N + Spoiler$ ,  $I_w = 15$ , C = 0

Figure 107 - Con



Run 281,  $W_5N$ ,  $I_w = 15$ , = 30

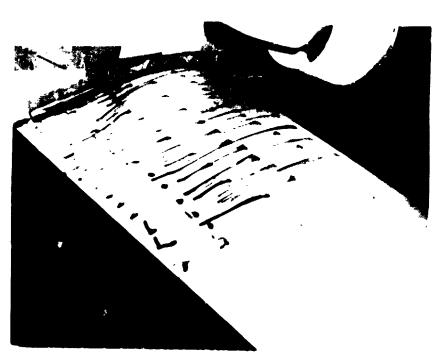
Figure 108. Wing Oil Flow With Wing Fences Installed - Unpowered.

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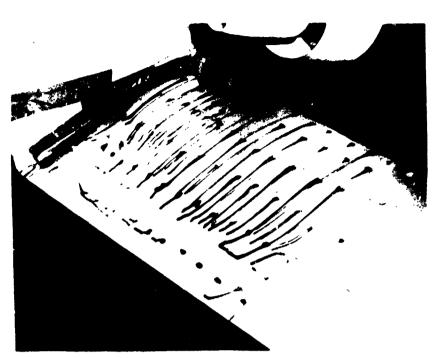


Run 124,  $W_1N_p$ , Windmill,  $I_w = 15$ ,  $\alpha = 0$ 



b Run 124,  $W_1N_p$ , Windmill,  $I_w = 15$ , C = 0

Figure 109. Wing Oil Flow Patterns - Powered.



Run 125,  $W_1N_p$ , Trim,  $I_w = 15$ ,  $\bullet C = 0$ 

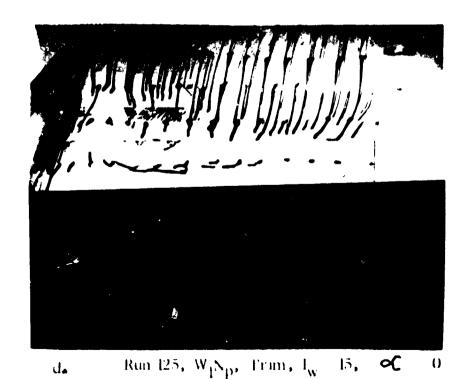
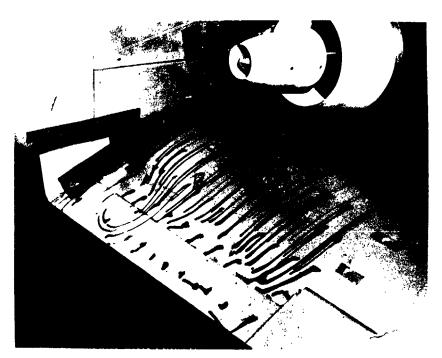
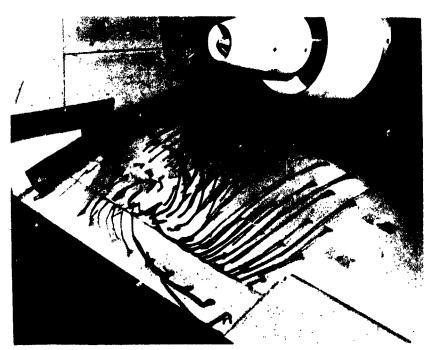


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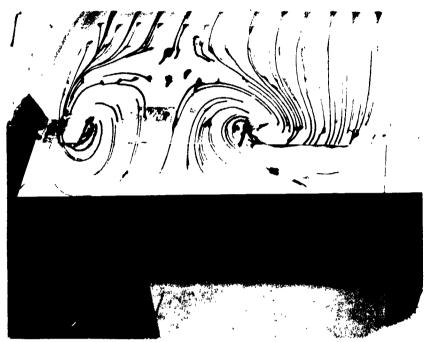


Run 126,  $W_1N_{p2}$ , Windmill,  $I_w = 15$ ,  $\alpha = 0$ 

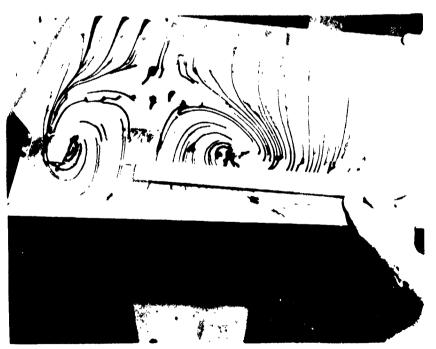


Run 127,  $W_1N_{p2}$ , Trim,  $I_w = 15$ ,  $\alpha C = 0$ 

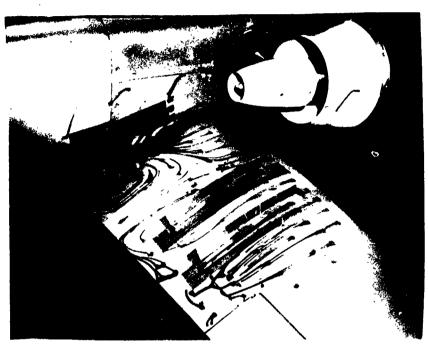
Figure 109 - Continued



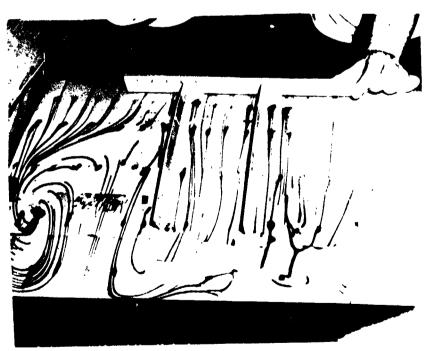
g Run 148,  $WN_{pl}$  + Splitter, Trim,  $I_{w} = 15$ ,  $\alpha = 0$ 



h Run 148,  $WN_{pl}$  + Splitter, Trim,  $I_{w} = 15$ , C = 0Figure 109 - Continued



Run 149,  $W_2N_{p1}$ , Trim,  $I_w = 15$ ,  $\sim C = 0$ 

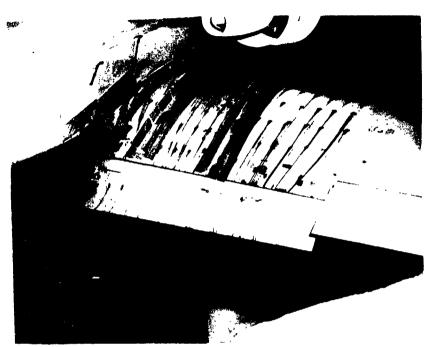


Run 149,  $W_2N_{pl}$ , Trim,  $I_w = 15$ ,  $\alpha = 0$ 

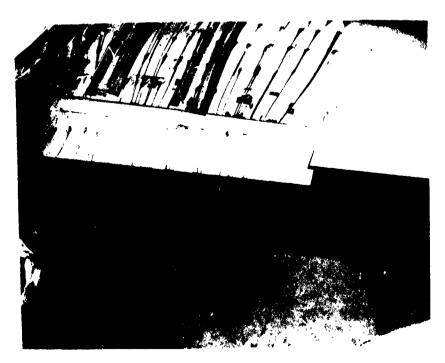
Figure 109 - Continued

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Run 152,  $W_3 N_{pl}$ , Trim,  $I_w = 15$ ,  $\mathcal{L} = 25$ ,  $\infty = 0$ 

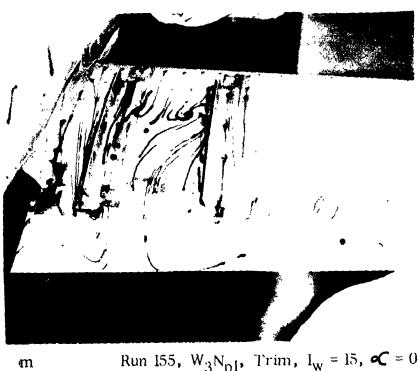


Run 152,  $W_3N_{pl}$ , Trim,  $I_w = 15$ ,  $\mathcal{L} = 25$ ,  $\mathcal{L} = 0$ 

Figure 109 - Continued

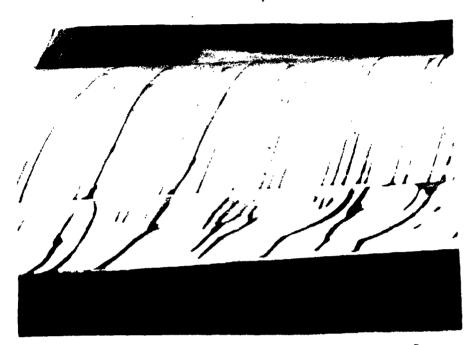
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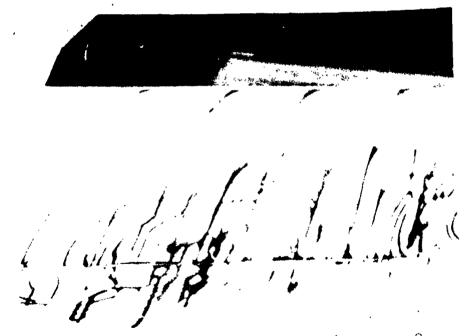


Run 155,  $W_3N_{p1}$ , Trim,  $I_W = 15$ ,  $\sim 0$ 

Figure 109 - Concluded



a. Run 478,  $\mathbb{I}_{P5}^{W_8}$ , Trim Power,  $\mathbb{I}_{\mathbf{w}} = 10^{\circ}$ ,  $\ll = 10^{\circ}$ 



b. Run 479, N<sub>P5</sub>W<sub>8</sub>, Trim Fower, i<sub>w</sub> = 0°, ≪ = 15°

Figure 110. Wing Oil Flow Without Fences - Powered.

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c. Run 473,  $N_{P5}W_8$ , Trim Power,  $i_w = 15^{\circ}$ ,  $< = 2.5^{\circ}$ .

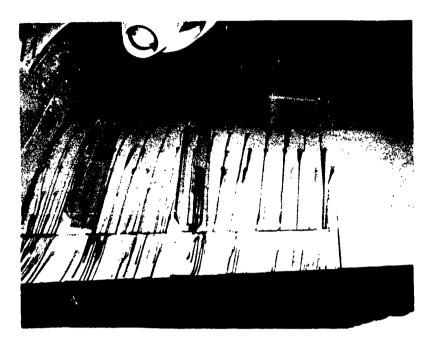


**d.** Run 475,  $N_{P5}N_8$ , Trim Power,  $i_w = 15^\circ$ ,  $F = 30^\circ$ ,  $\sim = 2.5^\circ$ 

Figure 110 - Concluded.

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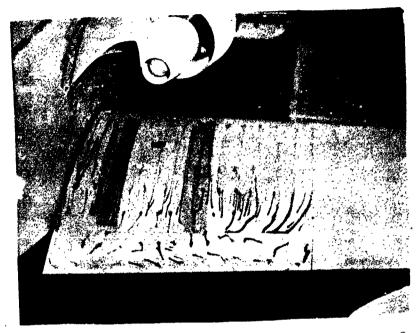


a. Run 484,  $N_{P5}N_{\gamma}$ , Trim Power,  $i_{w} = 0^{\circ}$ ,  $\prec = 0^{\circ}$ 



b. Run 484,  $\pi_{F5}V_{7}$ , Trim Power,  $\pi_{W} = 0^{\circ}$ ,  $\ll = 15^{\circ}$ 

Figure 111. Wing Oil Flow With Fences - Powered.

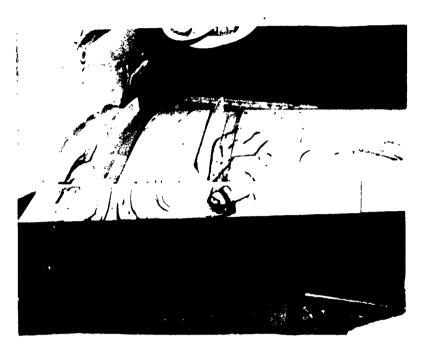


e. Run 489,  $N_{P5}W_7$ , Trim Power,  $i_w = 15^{\circ}$ ,  $\ll = 2.5^{\circ}$ 



d. Run 490,  $N_{P5}W_7$ , Trim Power,  $i_W = 15^\circ$ ,  $\delta_F = 30^\circ$ ,  $<= 2.5^\circ$ 

Figure 111 - Continued



e. Run 493,  $N_{P5}N_7$ , Trim Power,  $i_W = 0^{\circ}$   $\sim = 15^{\circ}$ ,  $i_N = 0^{\circ}$ 



f. Run 495,  $K_{P5}W_{7}$ , Urin Fower,  $I_{W} = \frac{1}{2}$ ,  $K_{C} = 15^{\circ}$ ,  $I_{R} = 5^{\circ}$ 

Figure 111 - Concludei



Run 94 -  $W_1N$ ,  $I_W = 15$ , < -10

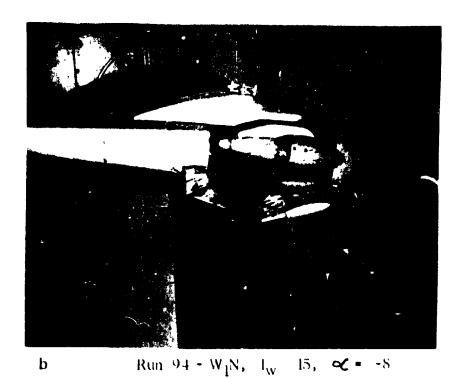
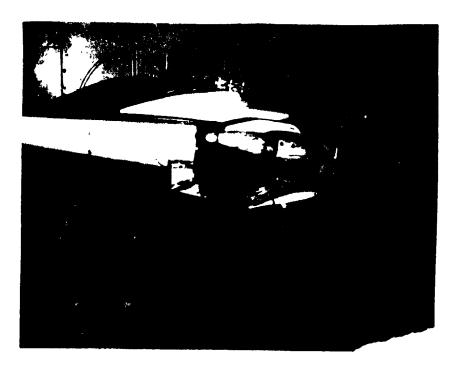


Figure 112. Wing and Nacelle Flow vo. Angle of Attack, to me 15 Deg.

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Run 94 -  $W_1N_1$ ,  $I_W = 15$   $\sim -6$ 

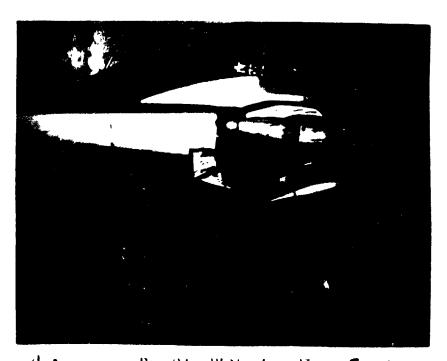
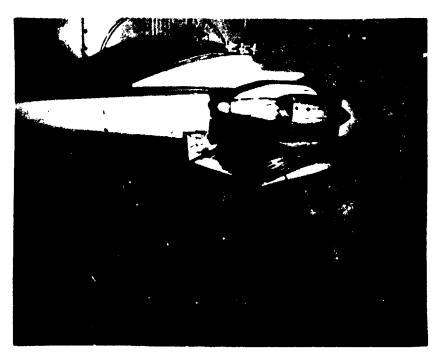


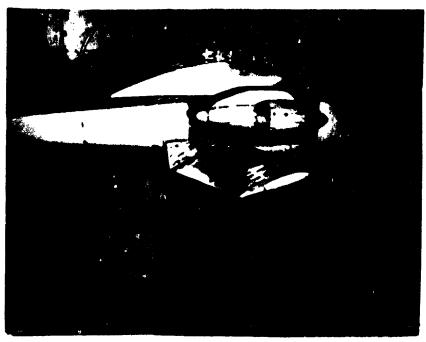
Figure 112 - Continued

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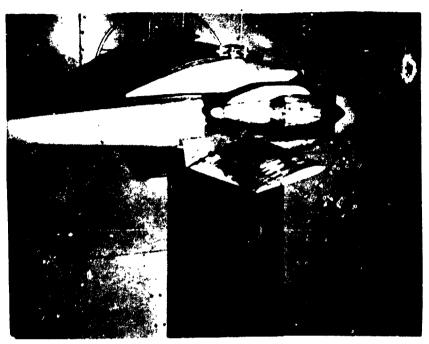
e Run 94 -  $W_1N_1$ ,  $I_W = 15$ ,  $\sim C -2$ 



Run 94 -  $W_1N_1$ ,  $I_W = 15$ ,  $\sim 0$ 

Figure 1.12-Continued

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Run 94 -  $W_1N$ ,  $I_W = 15$ ,  $\alpha C = 2$ 

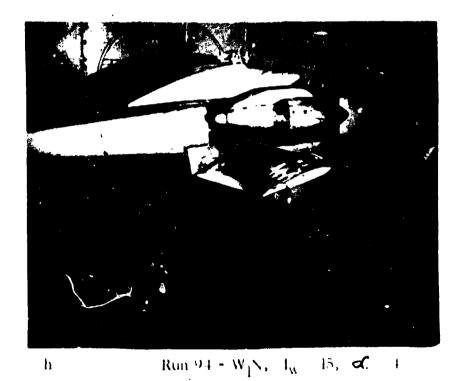
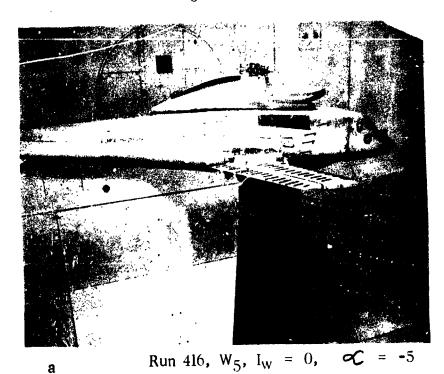


Figure 112 - Concluded



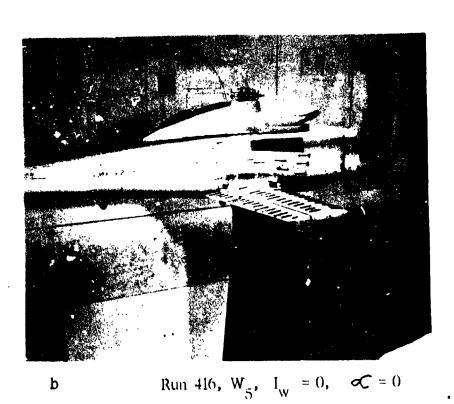
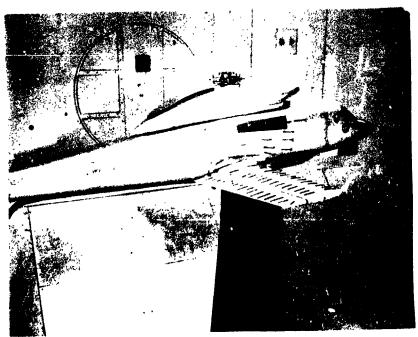


Figure 113. Wing Flow Vs. Angle of Attack,  $i_e = 0$  Deg.



Run 416,  $W_5$ ,  $l_W = 0$ ,  $\alpha = 5$ 

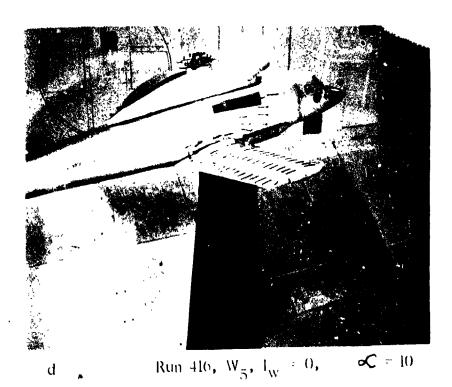
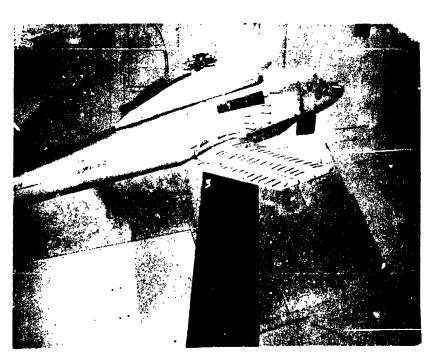


Figure 113 - Continued



Run 416,  $W_5$ ,  $I_W = 0$ , < < = 12.5

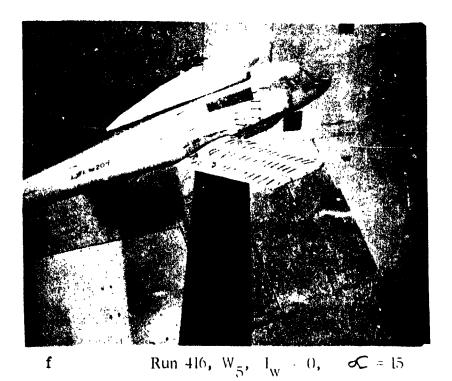
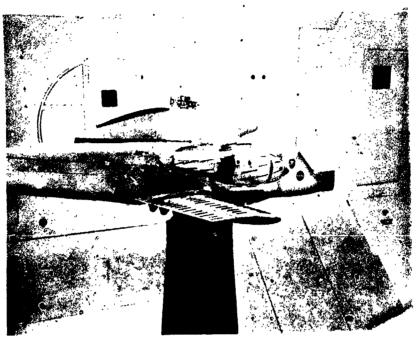


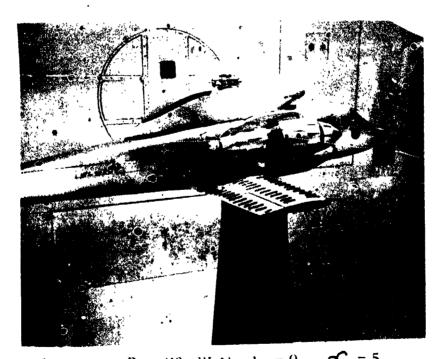
Figure 113 - Concluded

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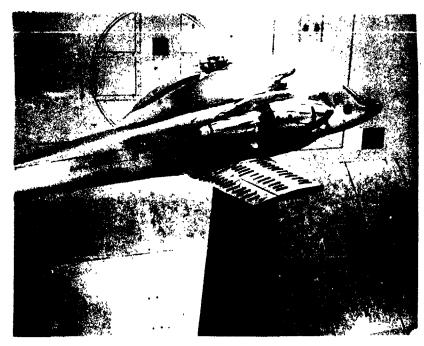


Run 413,  $W_5$  N,  $I_w = 0$ ,  $\alpha = -5$ 



b Run 413,  $W_5N$ ,  $l_w = 0$ ,  $\alpha C = 5$ 

Figure 114. Wing and Nacelle Flow Vs. Angle of Attack,  $i_{\overline{W}} = 0$  Deg.



Run 413,  $W_5N$ ,  $I_w = 0$ ,  $\alpha = 10$ 

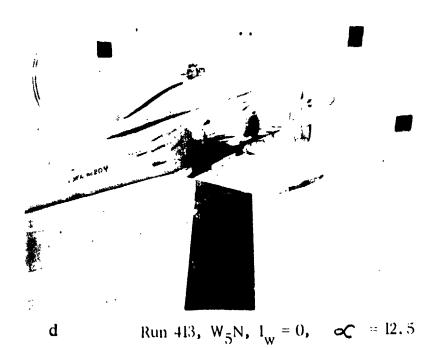
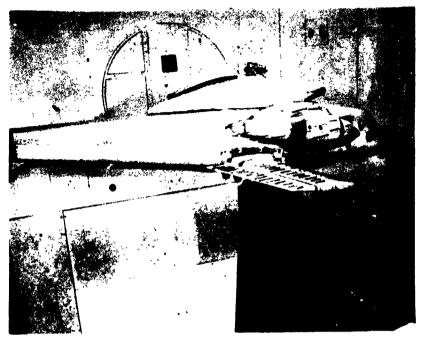


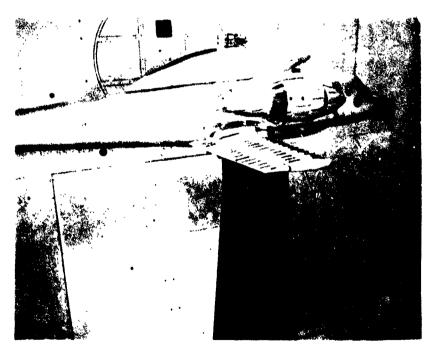
Figure 114 - Continued

#### SIKORSKY Aircraft DIVISION OF UNITED ARCRAFT CORPORATION A

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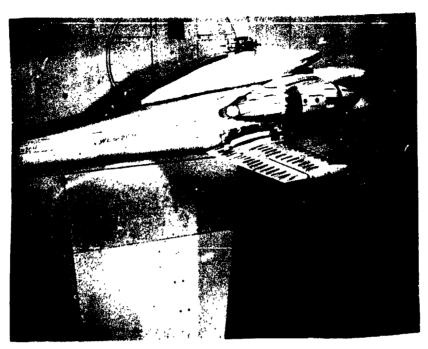
Run 414,  $W_5N$ ,  $I_W = 0$ ,  $\alpha = -5$ 



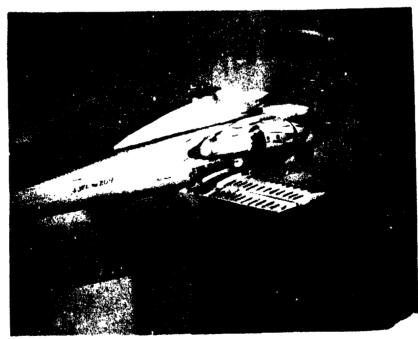
Run 414,  $W_5N$ ,  $I_W = 0$ ,  $\sim = 0$ 

Figure 114 - Continued

503

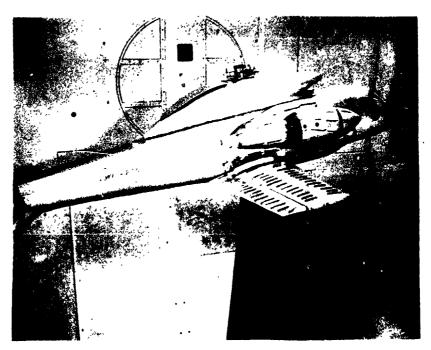


g Run 414,  $W_5N$ ,  $I_W = 0$ ,  $\sim C = 5$ 

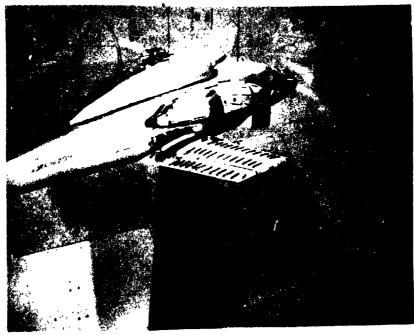


h Run 414,  $W_5N$ ,  $I_W = 0$ ,  $\sim = 7.5$ 

Figure 114 - Continued



Run 414,  $W_5N$ ,  $I_w = 0$ ,  $\alpha = 10$ 

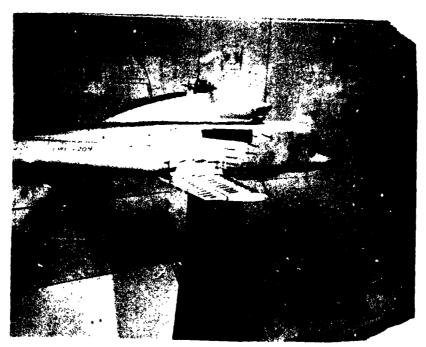


Run 414,  $W_5N$ ,  $I_W = 0$ , C = 12.5

Figure 114 - Concluded

## Sikorsky Aircraft Division of United America Componention A

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Run 415,  $W_5$ ,  $I_w = 0$ , y = 15

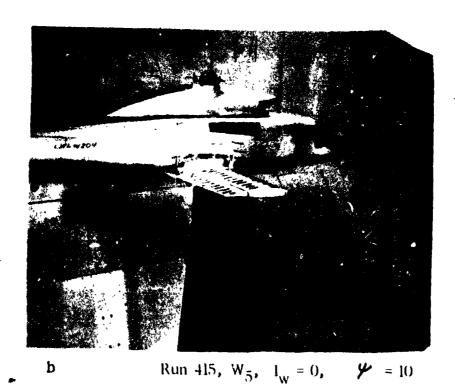
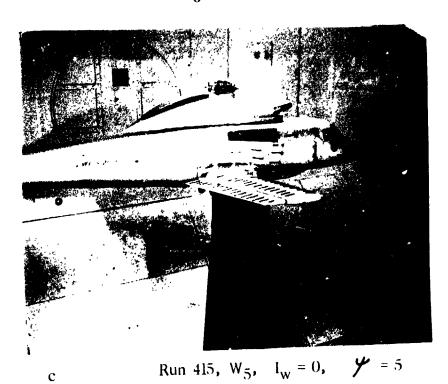


Figure 115. Wing Flow Vs Angle of Yaw, i = 0 Deg.



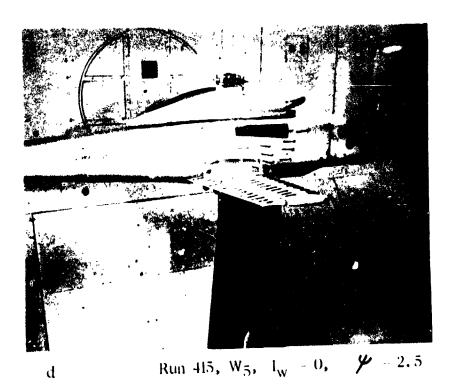


Figure 115 - Continued

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Run 415, W5,  $l_w = 0$ ,  $\psi = 0$ 

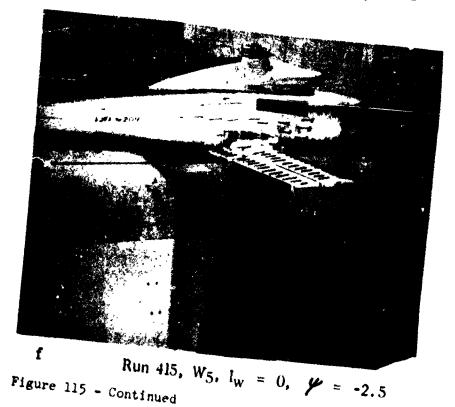
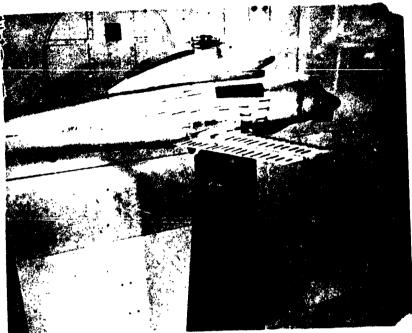


Figure 115 - Continued



Run 415,  $W_5$ ,  $I_W = 0$ ,  $\mathcal{Y} = -5$ 

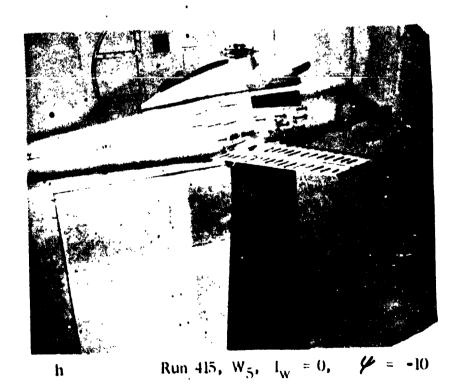
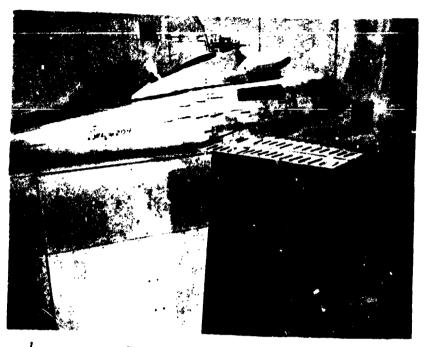


Figure 115 - Continued

REPORT NO. SER-72011



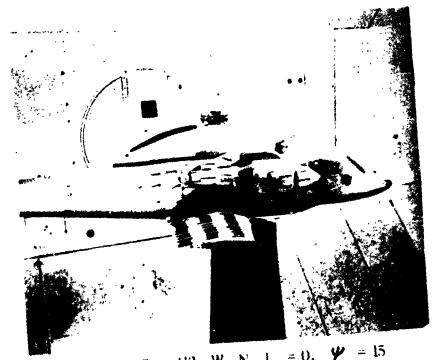
Run 415,  $W_5$ ,  $I_w = 0$ ,  $\mathscr{Y} = -15$ 

Figure 115 - Concluded

## Sikorsky Aircraft Strands of United Angular Composition A.

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Run 412,  $W_5 N$ ,  $I_W = 0$ ,  $\psi = 15$ 

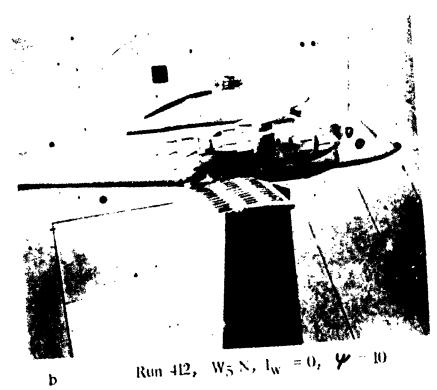
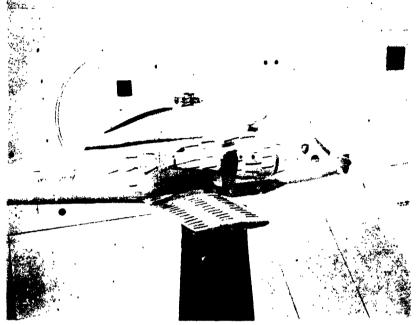


Figure 11:. Wing and have the First Vo. Made of Yes, 1 = 1 lear.

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Run 412,  $W_5$  N,  $I_w = 0$ ,  $\psi = 5$ 

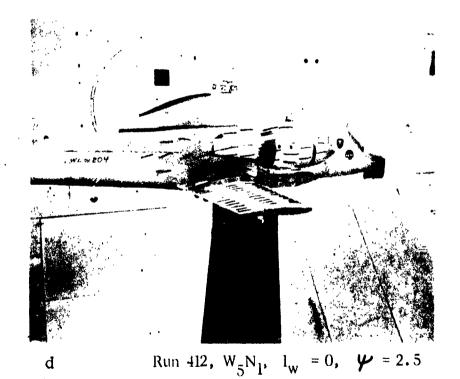
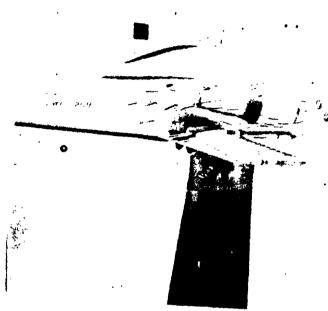
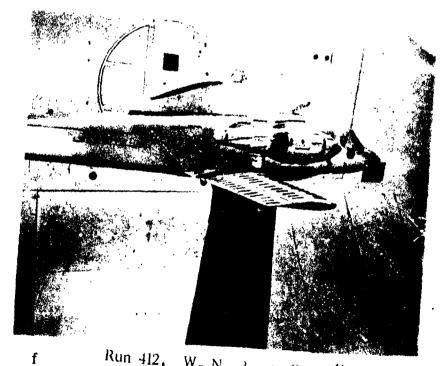


Figure 116 - Continued



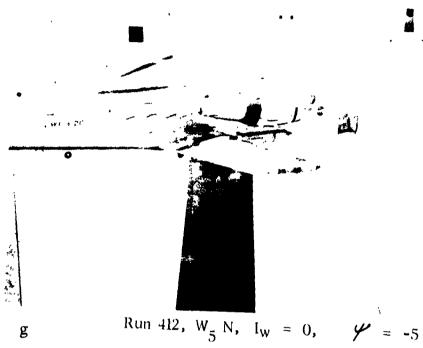
Run 412,  $W_5 N$ ,  $I_W = 0$ ,

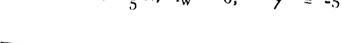


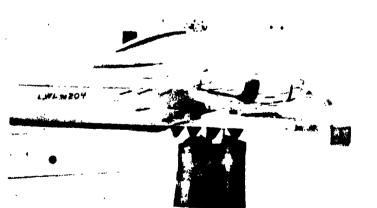
Run 412,  $W_5 N$ ,  $I_W = 0$ ,  $\gamma$ Figure 116 - Continued

## Sikorsky Aircraft ONIBION OF UNITED AIRCRAFT CORPORATION A

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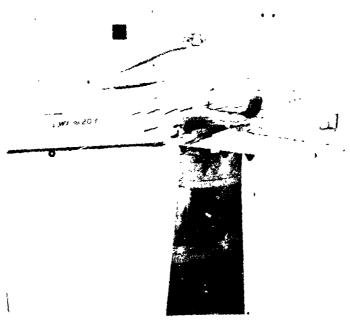


Run 412,  $W_5$  M,  $I_w = 0$ ,  $\psi = -10$ 

Figure 116 - Continued

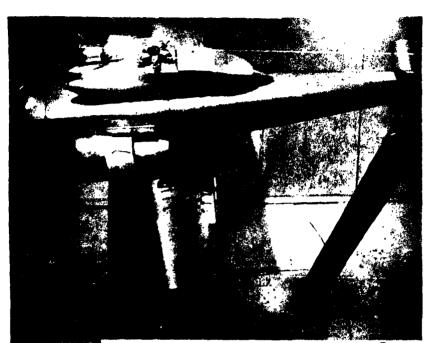
Sikorsky Aircraft DIVIDION OF UNITED AIRCRAFT COMPONATION

REPORT NO. SER-72011



Run 412, W 5 N,  $I_{w} = 0$ , y = -15

Figure 116 - Concluded



Run 176,  $W_4N_{pl}$ , Trim,  $I_w = 15$ ,  $C_f = 40$ ,  $C_a = 10$ ,  $C_b = -8$ 



 $\mathcal{S}_{a} = 10$ ,  $\mathcal{C} = -4$ 

Figure 117. Wing and Nacelle Flow Vs. Angle of Attack - Powered.

516

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Run 176,  $W_4 N_{pl}$ , Windmill,  $I_w = 15$ ,  $G_c = 40$ ,  $G_a = 10$ ,  $C_c = 0$ 

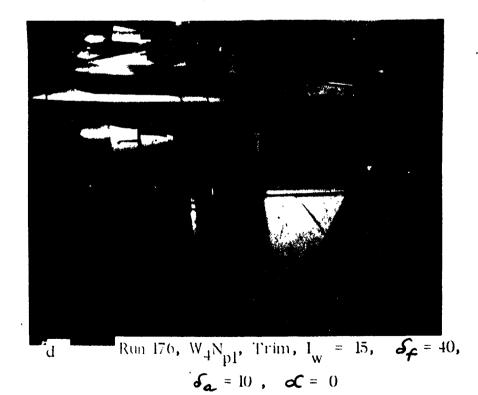
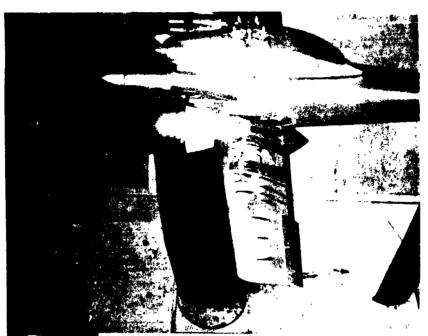


Figure 117 - Continued



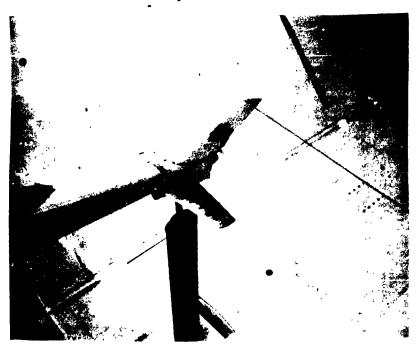
e Run 176,  $W_4N_{p1}$ , Trim,  $I_w = 15$ ,  $\mathcal{L} = 40$ ,  $\mathcal{L} = 10$ ,  $\mathcal{L} = 2.5$ 



Run 176,  $W_4 N_{\rm pl}$ , Trim,  $I_{\rm W} = 15$ ,  $S_{\rm p} = 40$ ,  $S_{\rm a} = 10$ ,  $S_{\rm b} = 5$ 

Figure 117 - Concluded

D



Run 303,  $W_5N_{p4}$ ,  $I_w = 0$ ,  $\sim 0$ a

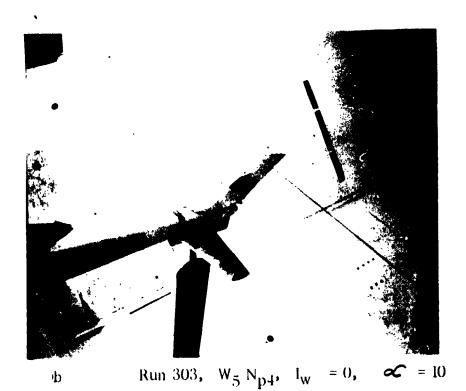
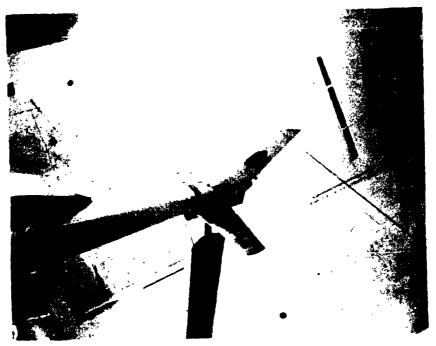


Figure 118. Empennage Flow - Configuration  $\text{FPEN}_{\text{Ph}} \text{W}_5 \text{TB}_{\text{T}}$ .

¢



Run 303,  $W_5 N_{p4}$ ,  $I_w = 0$ ,  $\sim = 12.5$ 

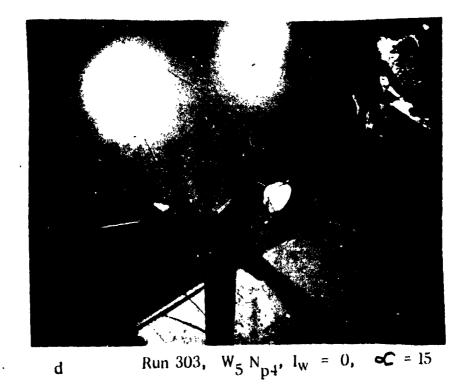
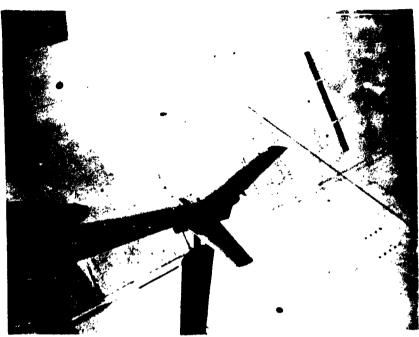


Figure 118 - Continued

## Sikorsky Aircraft ON BOOK OF UNITED AIRCRAFT AIRCRAFT AIRCRAFT

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Run 303,  $W_5 N_{p4}$ ,  $I_w = 0$ ,  $\ll = 17.5$ 



Run 303,  $W_5 N_{p4}$ ,  $I_w = 0$ , < < < > = 20

Figure 115 - Concluded

1)



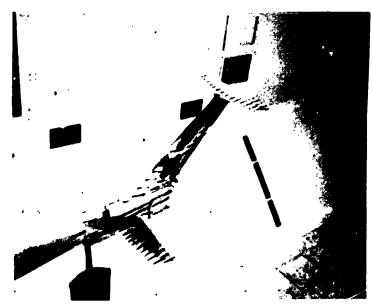
a Run 651,  $<=0^{\circ}$  , q=0 psf, Fan RPM = 11150



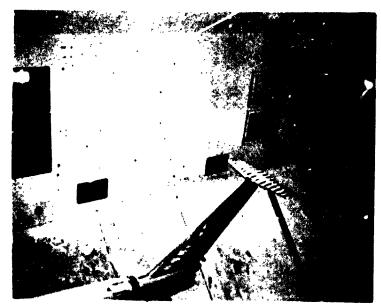
b Run 651,  $< = -10^{\circ}$  , q = 55 psf, Fan RPM = 11150

Figure 119. Empennage Flow - Configuration FPBN P5W7T36BT.

522

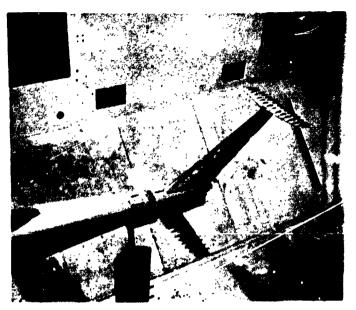


c Run 651, <= -5, q= 55psf, Fan RPM = 11150

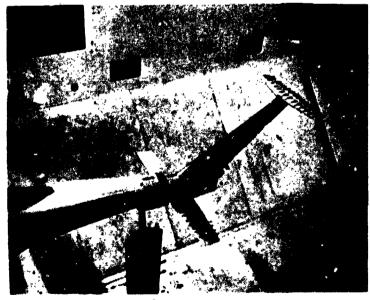


d Run 651,  $< 0^{\circ}$ , q= 55psf, Fan RPM = 11150

Figure '19 - Continued



e Run 651, <= 5°, q= 55psf, Fan RPM = 11150

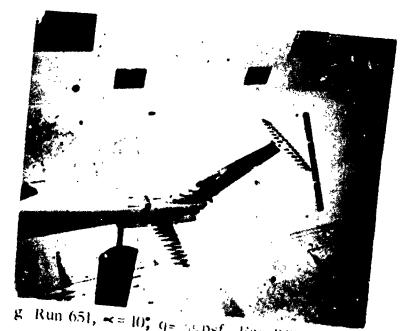


f Run 651, <= 7.5°, q= 55psf, Fan RPM = 11150

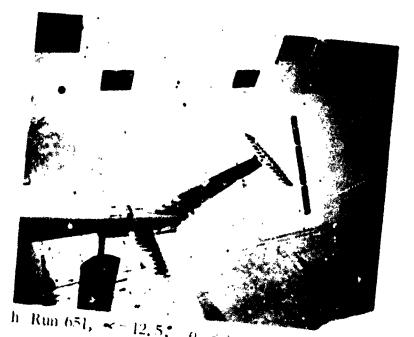
Figure 119 - Continued

Sikorsky Aircraft Division of United Aircraft Confidention A.

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g Run 651,  $\approx 10^{\circ}$ , q = 55 psf, Fan RPM = 11150



h Run 651, ~-12.5; q -> psf, Fan RPM 11150

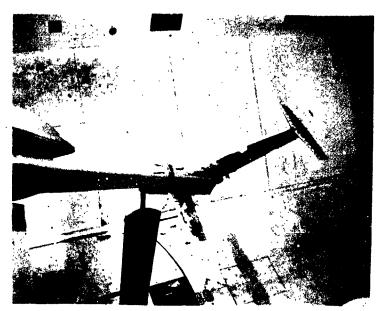


i Run 651, <=15, q=55psf Fan RPM = 11150

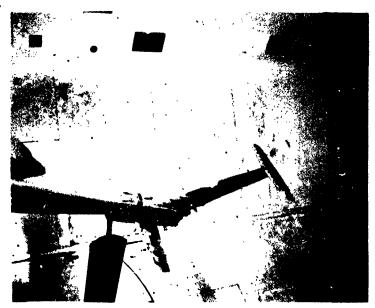


j Run 651, < = 17.5, q = 55psf, Fan RPM = 11150

Figure 119 - Continued



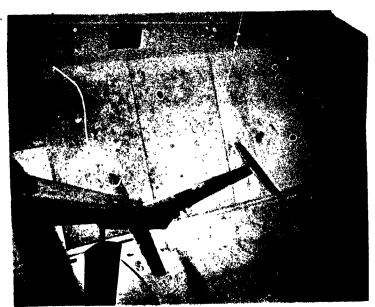
k Run 651,  $\approx = 20$ , q= 55 psf, Fan RPM = 11150



1 Run 651,  $\leq 22.5^{\circ}$  q= 55 psf, Pan RPM = 11150

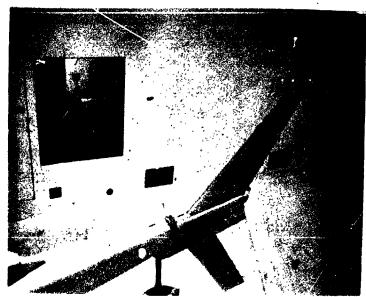
Figure 119 - Continued

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m Run 651,  $\sim$  = 25°, q = 55psf, Fan RPM = 11150

Figure 119 - Concluded



a Run 650, **<** = -15°

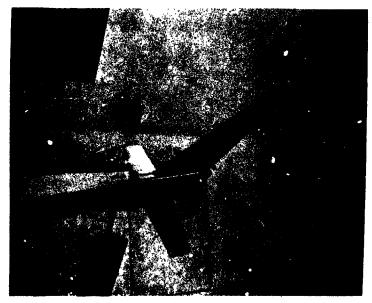
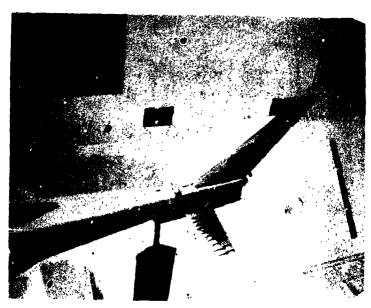


Figure 120. Empennage Flow - Configuration FPBN<sub>P5</sub>W<sub>7</sub>T<sub>37</sub>B<sub>T</sub>.



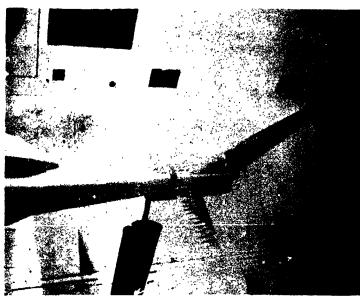
c Run 650,  $< = -5^{\circ}$ 



d Run 650,  $\approx =-2.5^{\circ}$ 

Figure 120 - Continued

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e Run 65(), **<** = ()°



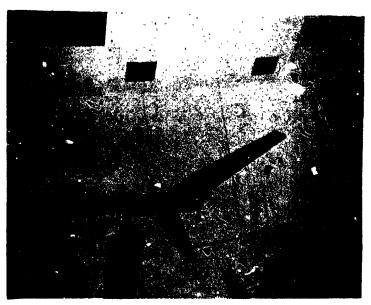
f Run 650,  $< -2.5^{\circ}$ 

Figure 120 - Continued

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g Run 650,  $\sim = 5^{\circ}$ 



h Run 650, <= 10°

Figure 120 - Continued

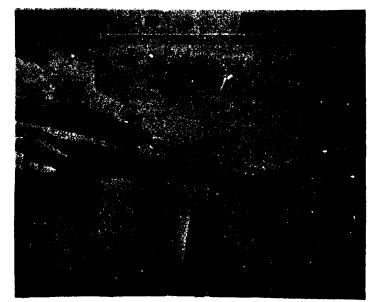




j Run 650, ≈=17.5°

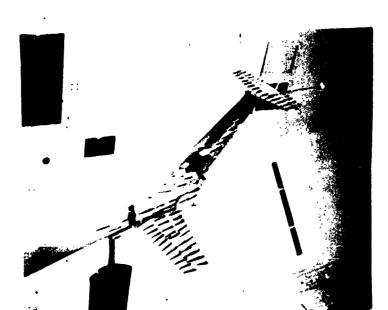
Figure 120 - Continued

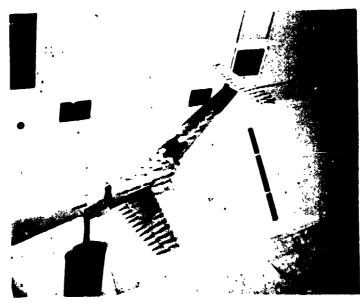
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k Run 650,  $\approx = 20^{\circ}$ 

Figure 120 - Concluded

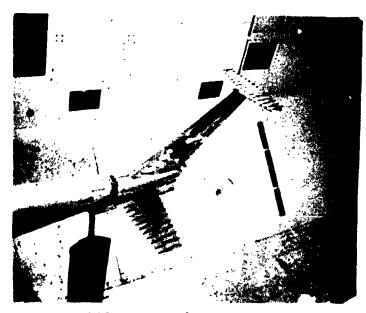




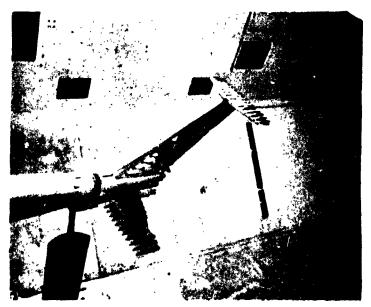
b Run 652, <=-5°

Figure 121. Empenhage Flow Configuration  $FPBN_{P5}^{W}_{7}^{T}_{29}^{B}_{T}$ .

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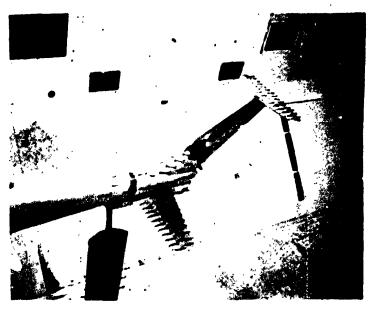


c Run 652, <=-2.5°

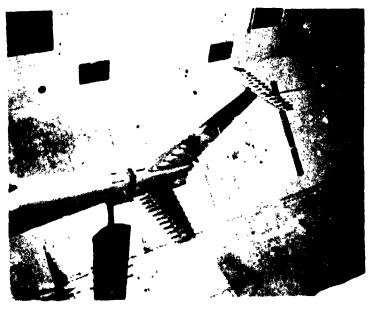


d Run 652, **<=** ○

Figure 121 - Continued



e Run 652, <= 2,5°



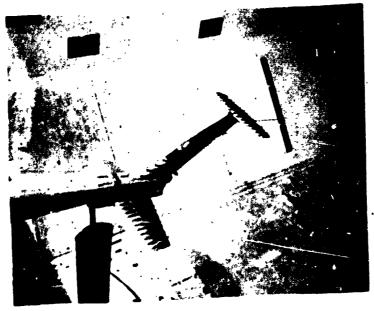
f Run 652,  $\sim = 5$ 

Figure 121 - Continued

537



g Run 652, <= 10°



h Run 652, ≪= 15°

Figure 121 - Continued

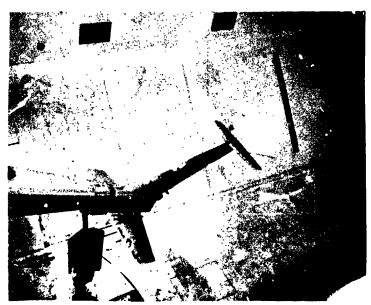


i Run 652 **~** = 17, 5°



j Run 652, ≈ : 20°

Figure 1/1 - 0 intinued



k Run 652, **<=** 22.5°

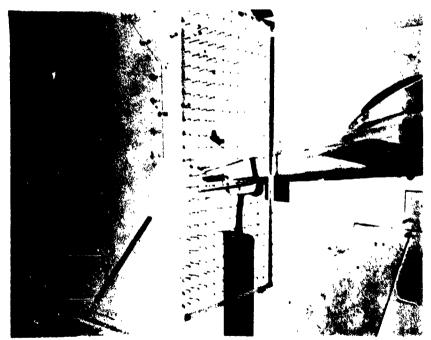


1 Run 652,  $\approx = 25^{\circ}$ 

Figure 121 - Concluded



Ruo 301, W<sub>5</sub>N<sub>pl</sub> , Trim,  $I_w = 0$ , V=25 Kts ,  $\ll$ =10



Run 301,  $W_{5}N_{pl}$ , Trim,  $I_{w} = 0$ , V=25 Kts,  $\sim 10^{-10}$ b

Figure 122 Tail flow cavironment



c Run 301,  $W_5 N_{pl}$ , Trim,  $I_w = 0$ , V=25 Kts,  $\sim$  =17.5

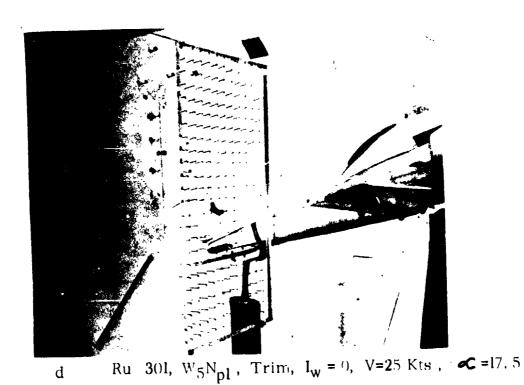
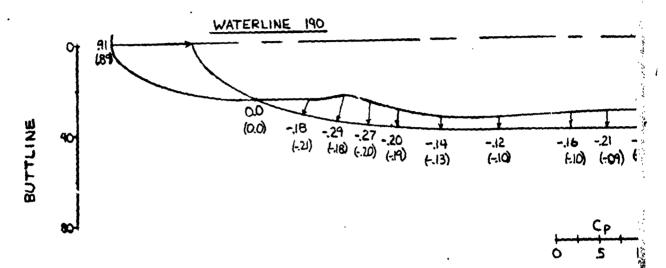


Figure 122 Tail flow environment (concluded)

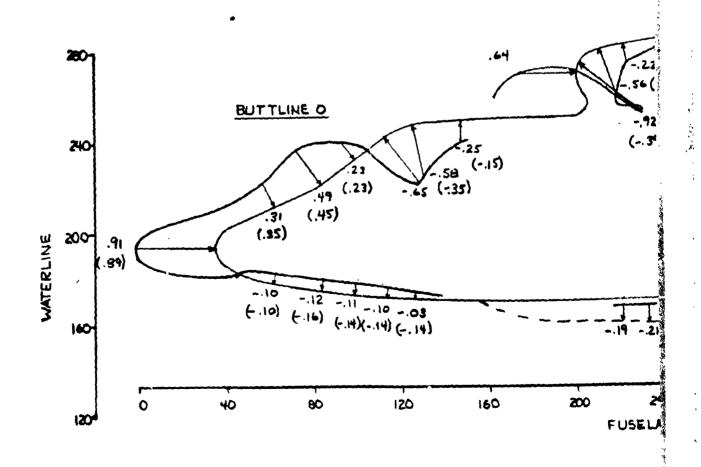
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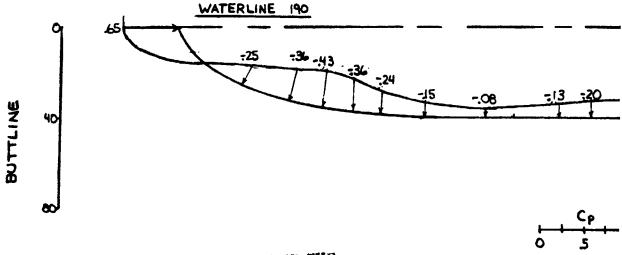


HOLDOTTO PRANTE 2 PRESSURE DISTRIBUTION SER-72011 SCALE WIND TUNNEL TEST FIGURE 123 SURATION: FPBTBT, 9 - 80 PSF OF ATTACK ODEG , ANGLE OF YAW ODEG -.**@** -.18 -,20 -.18 (-04) (408) (-11) (-07) NOTE: VALUE IN ( ) ARE CALCULATED USING COMPUTER PROGRAM Y179 (WITHOUT ROTOR HUB OR LANDING GEAR FAIRING). MAIN 1 ROTOR -.06(-.18) (-, 13) -. 24 (-.21) -.44 (-.20)-.34) (-.23) (-.02) (11) - 20 -.11 -.08 -.04 (-.04) (-.04) -.21 -.21 (-.10) (-.08 STRUT ी० 400 440 280 320 360 480 520 GE STATION PAGE 543

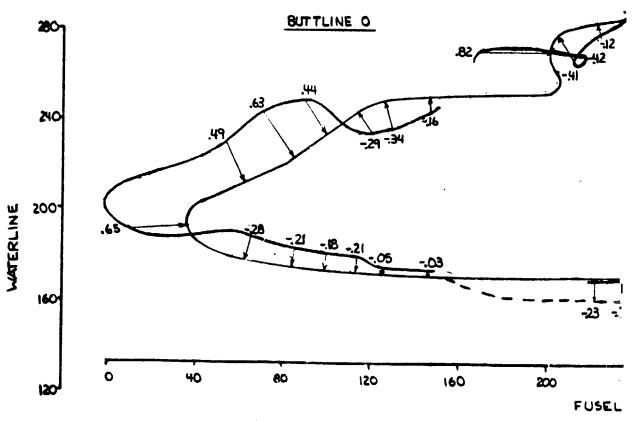
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FOLDOUT FRAME 2

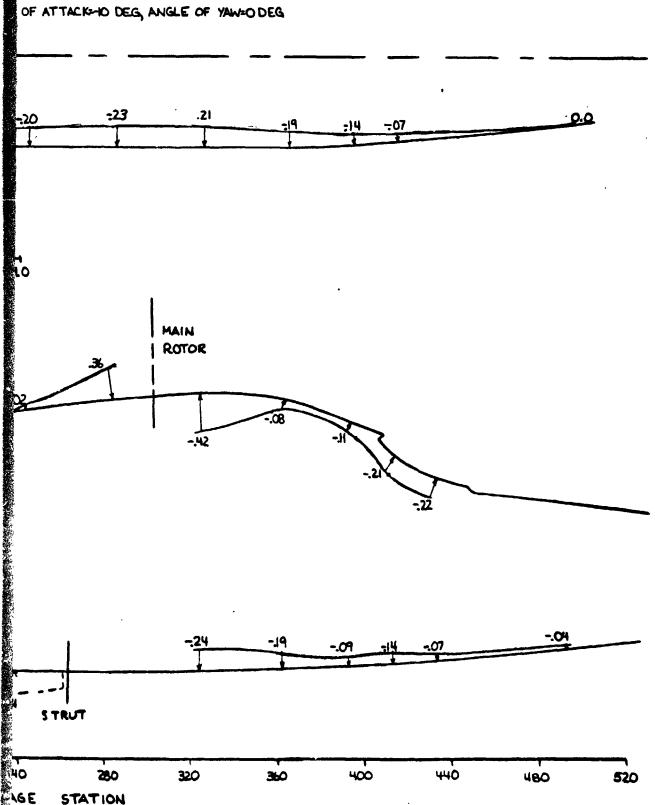
C PRESSURE DISTRIBUTION

I SCALE WIND TUNNEL TEST

SURATION: FPBTBT, 9=80 PSF

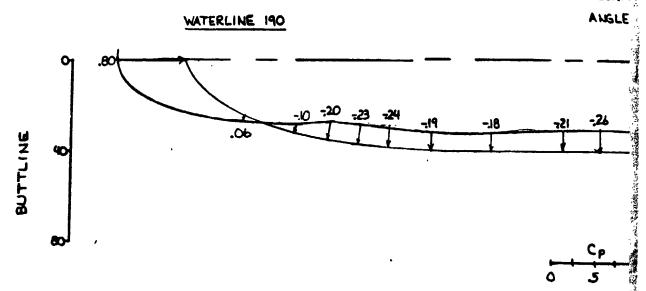
OF ATTACKS-10 DEG. ANGLE OF YAW20 DE

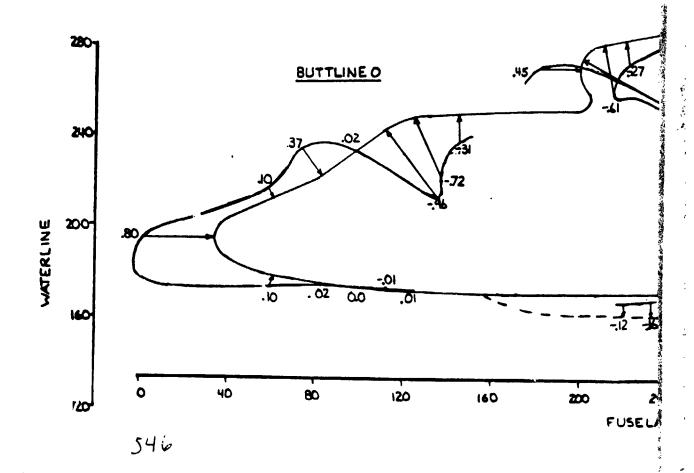
SER-72011 FIGURE 124

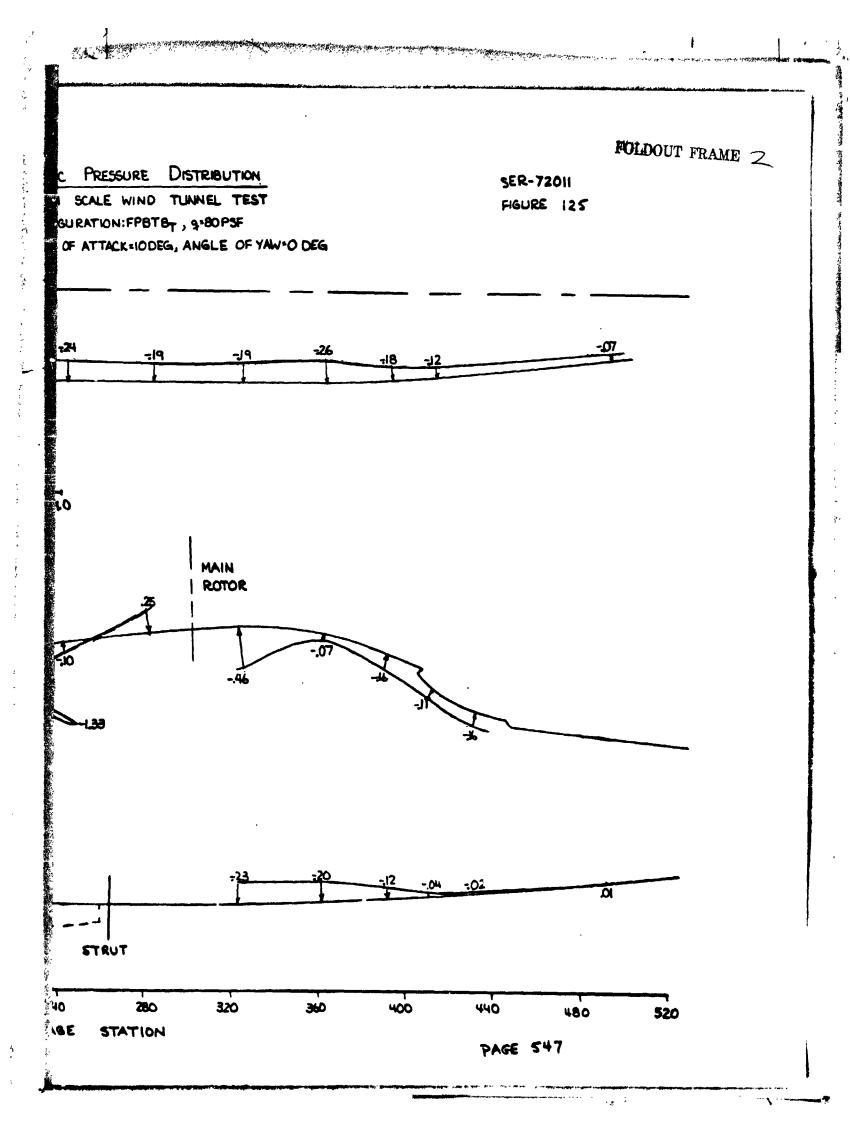


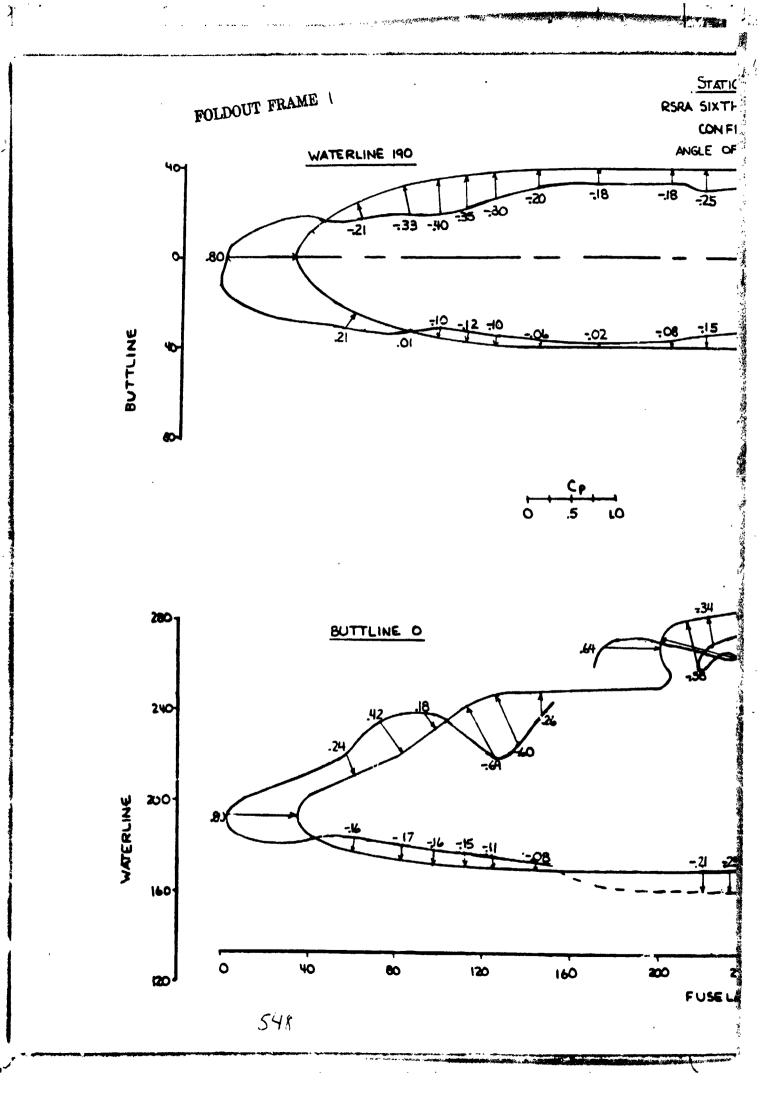
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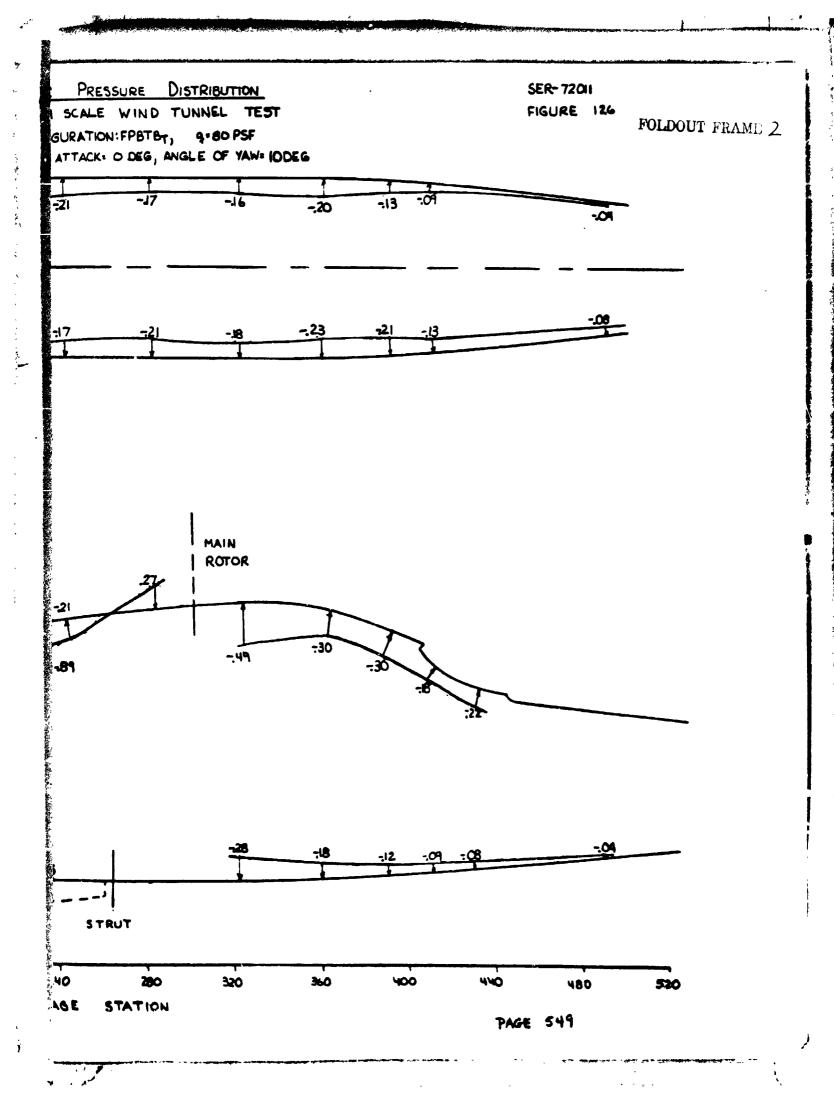
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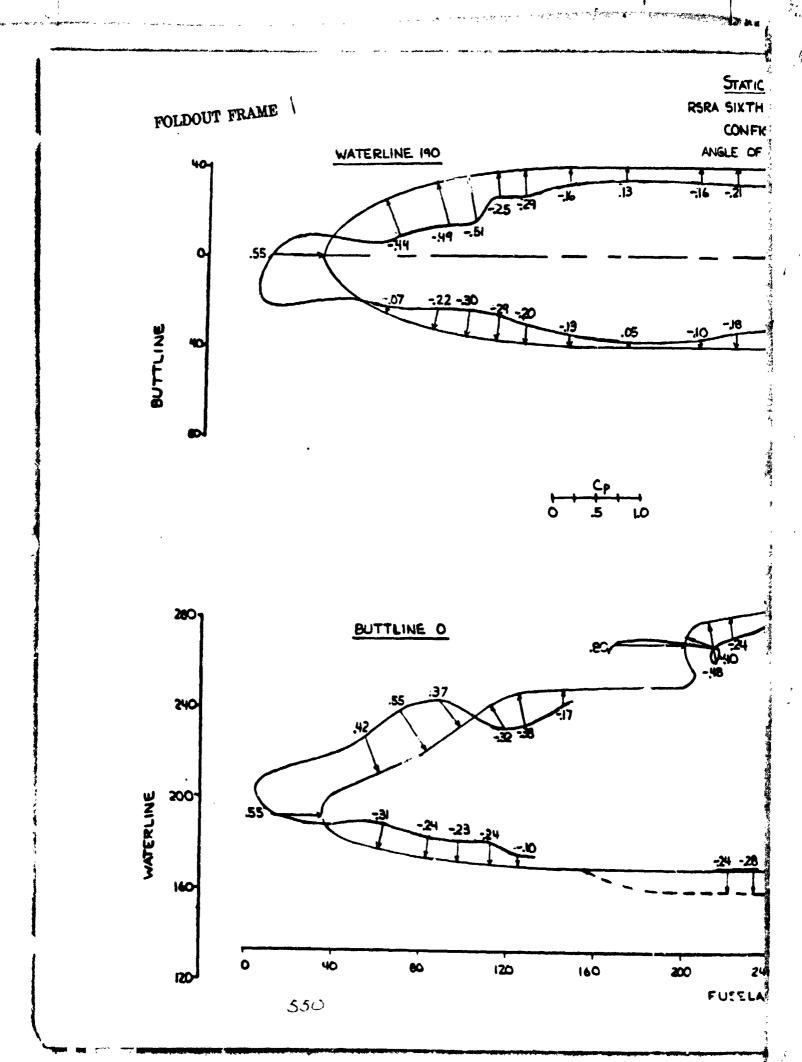


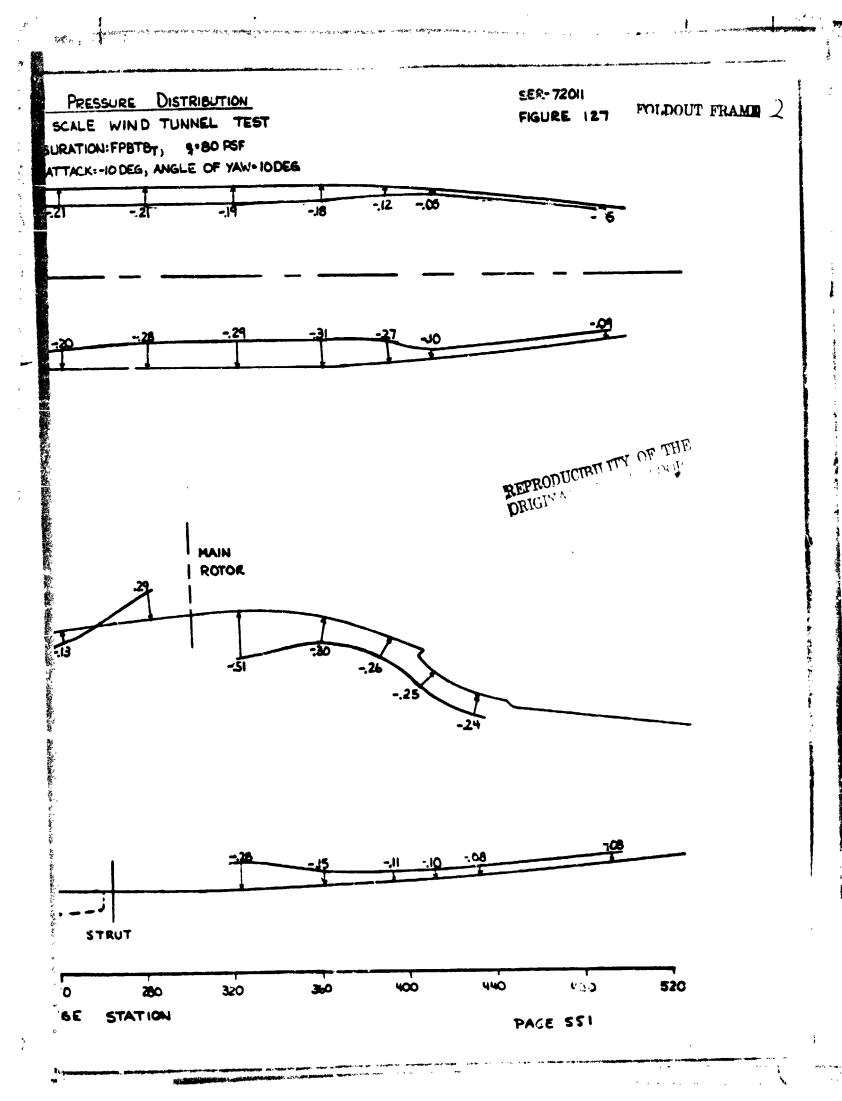








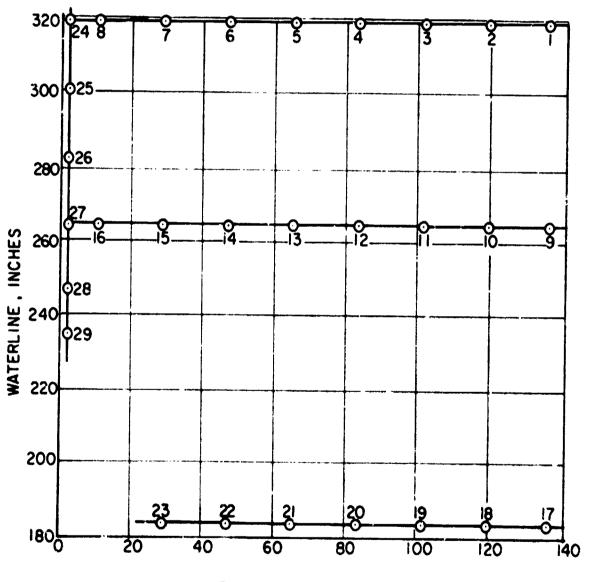




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FIGURE 128

#### TOTAL PRESSURE RAKE PROBE LOCATIONS



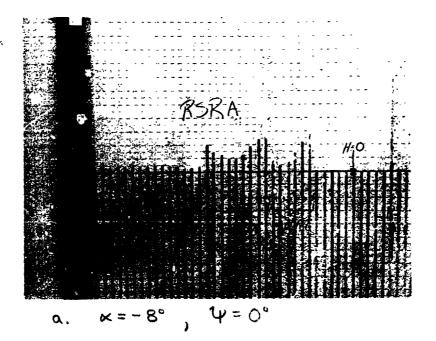
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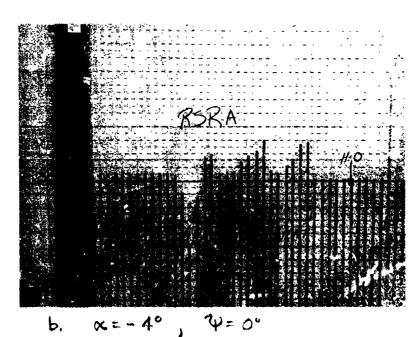
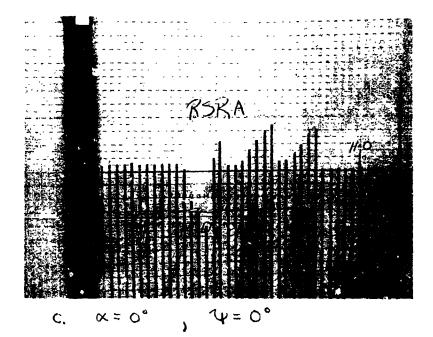


Figure 129 Total Pressure Rake Data Run 343, Configuration FPBNP, Ws Tq iw = -9°, de = 0°, TRIM POWER

#### Sikorsky Aircraft DIVIDION OF UNITED

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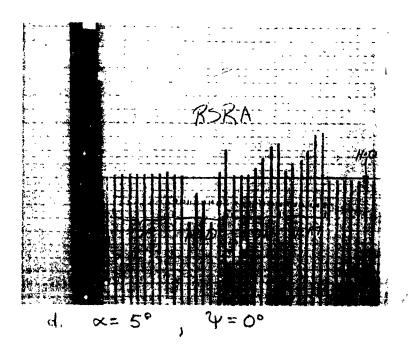


Figure 129 (Continued)

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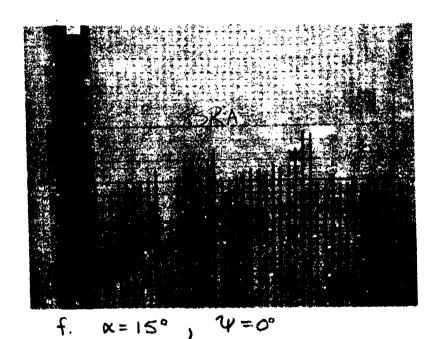


Figure 129 (Continued)

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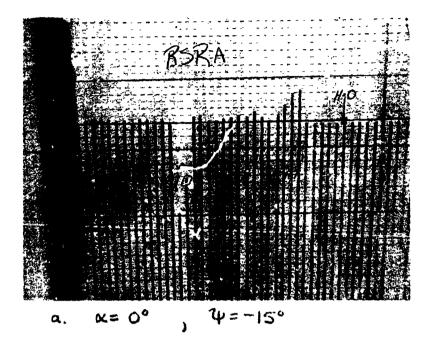


g. x=20°, \P=0°

Figure 129 (Concluded)

# Sikorsky Aircraft Division of United American Componation A

REPORT NO. SER - 72011



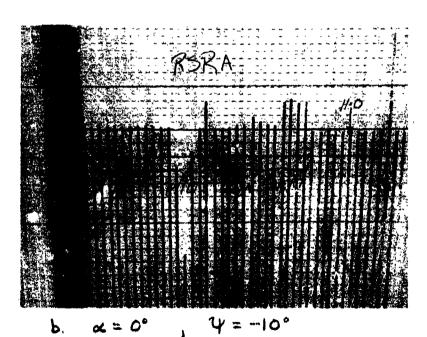


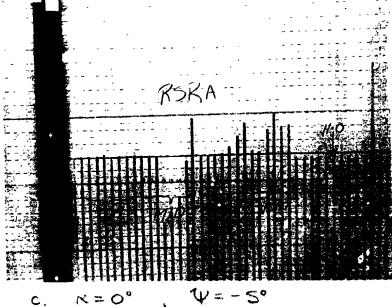
Figure 130 Total Pressure Rake Data
Run 345, Configuration FPBNP1W5Tq
iw=-9°, &f =0°, TRIM POWER

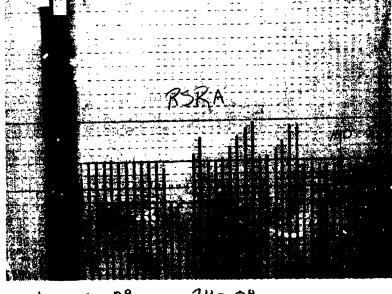
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### Sikorsky Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION A.

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W=0° x=0° d.

Figure 130 (Concluded)

### Sikorsky Aircraft DIVISION OF UNITED ARCRAFT CORPORATION $A_{6}$

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 $\alpha$ ,  $\alpha = -8^{\circ}$ ,  $\Psi = 0^{\circ}$ 

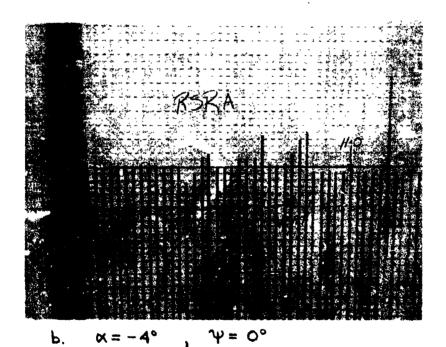


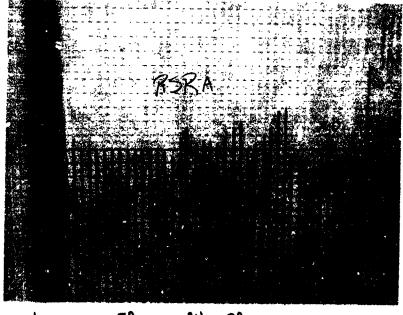
Figure 131 Total Pressure Rake Data

Run 346, Configuration FPBNPI W5 Tq

LW = 0°, & = 0°, TRIM POWER

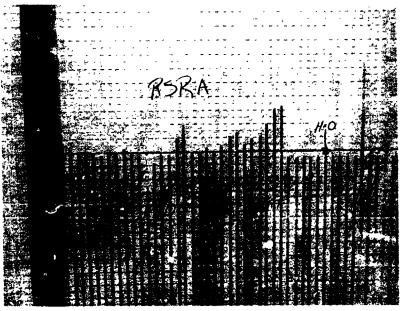


 $C. \propto = 0^{\circ} , \forall = 0^{\circ}$ 



d. x = 5°, Y=0°

Figure 131 (Continued)



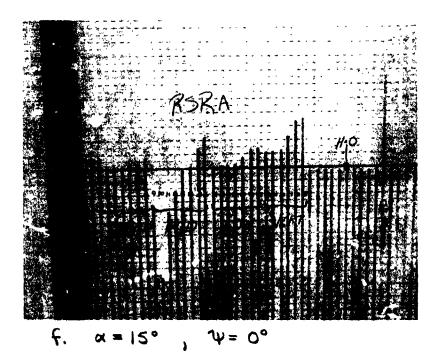


Figure 131 (Continued)

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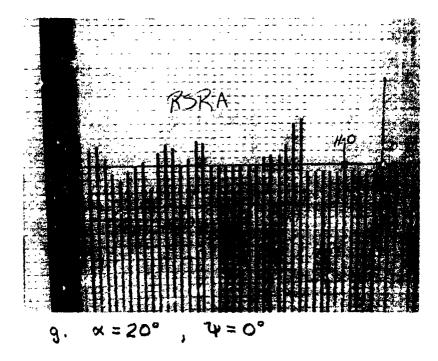
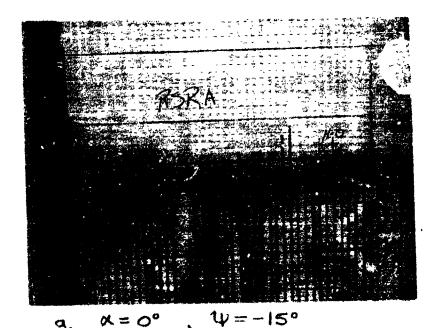
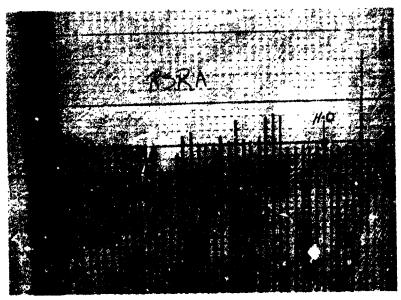


Figure 131 (Concluded)





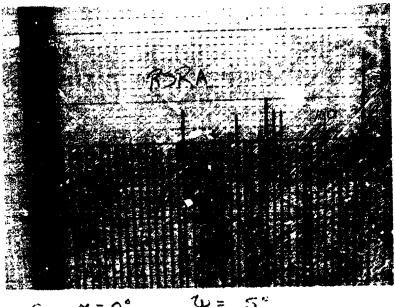
b.  $\alpha = 0^{\circ}$ ,  $\Psi = -10^{\circ}$ 

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Figure 132 Total Pressure Rake Data
Run 347, Configuration FPBNAW5Tq
in =0°, St =0°, TRIM POWER

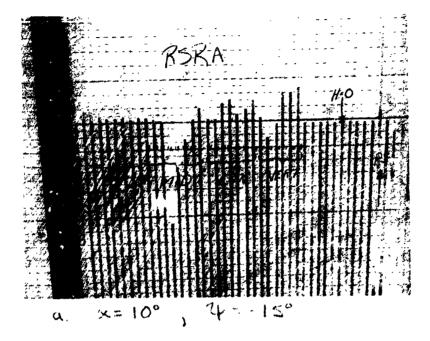
#### Sikorsky Aircraft ON/BION OF UNITED AIRCRAFT CORPORATION A

REPORT NO. 5ER-72011



c,  $\alpha=0^{\circ}$ ,  $\Psi=5^{\circ}$ 

Figure 132 (Concluded)



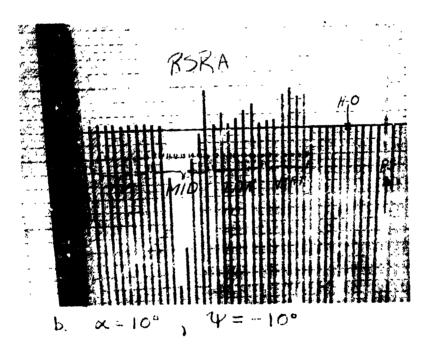


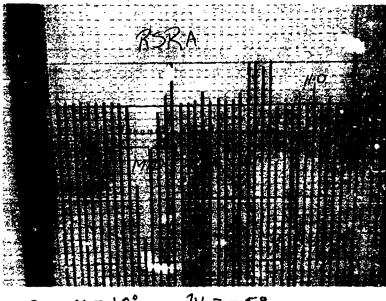
Figure 133 Total Pressure Loke Data

Run 348, Configuration FPBNP, W5 19

LW = 0°, 8¢ 0°, TRIM POWER

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c. 
$$\alpha = 10^{\circ}$$
,  $\Psi = -5^{\circ}$ 

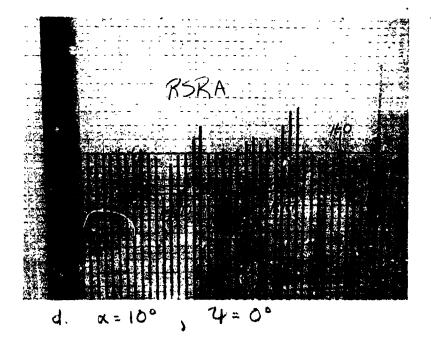
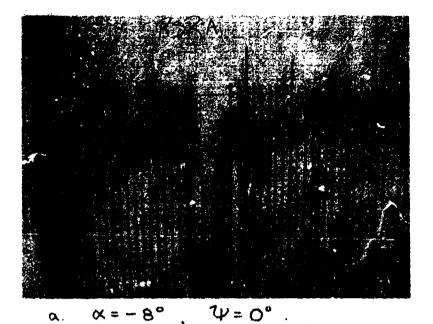


Figure 133 (Concluded)



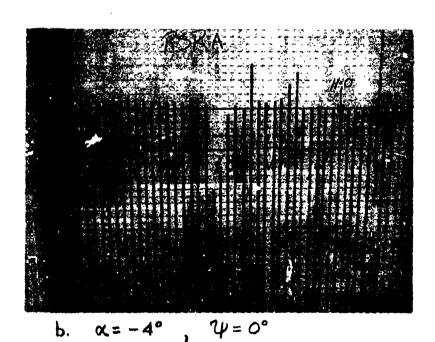
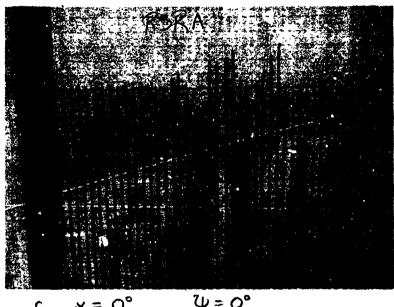


Figure 134 Total Pressure Rake Data
Run 349, Configuration FPBNP, Ws Tq

iw = 15°, Sf = 0°, TRIM POWER

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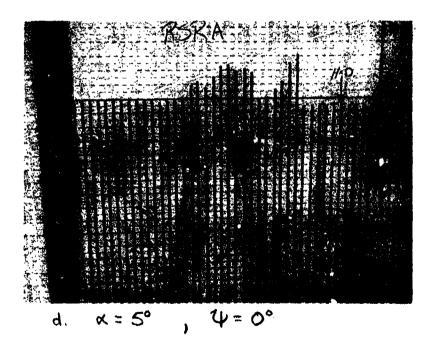
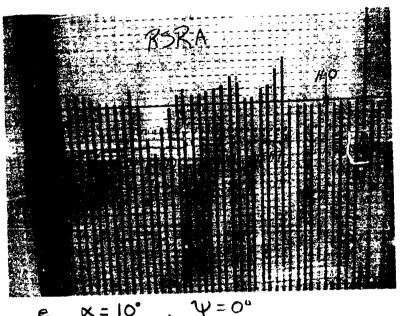


Figure 134 (Continued)

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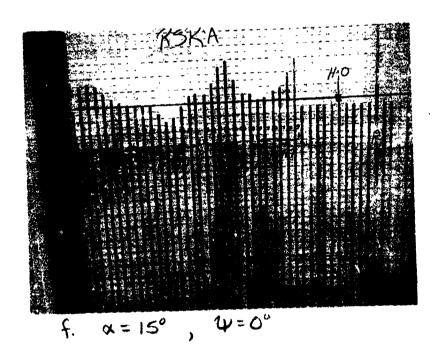


Figure 134 (Continued)

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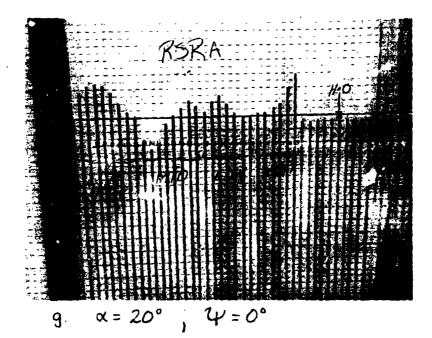
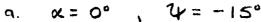


Figure 134 (Concluded)





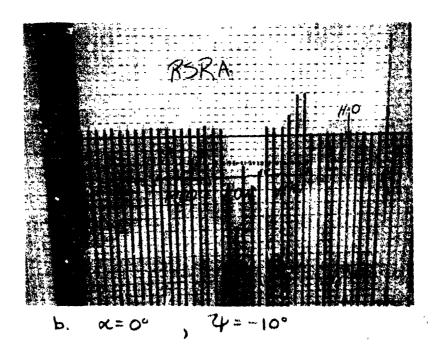


Figure 135 Total Pressure Rake Data
Run 350, Configuration FFBNPI W5Tq
iw = 15°, Sf = 0°, TRIM POWER

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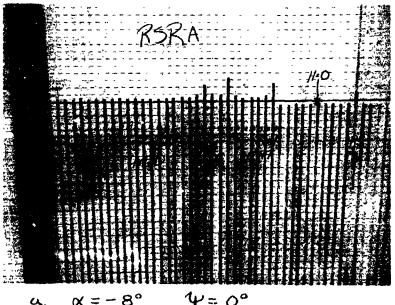
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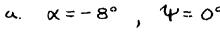
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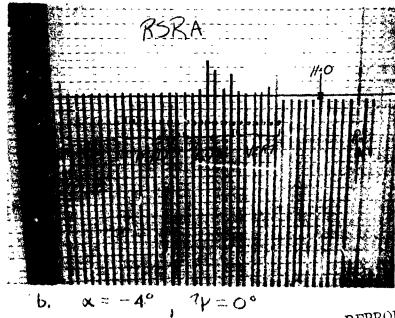


c. x=0° , V=-5°

Figure 135 (Concluded)



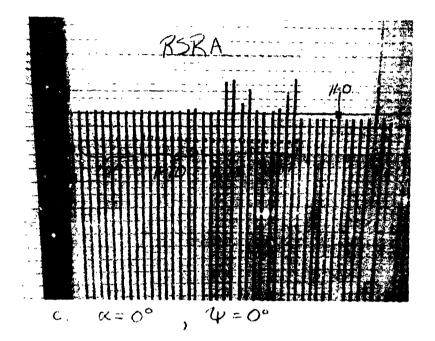




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Figure 136 Total Prossure Roke Data Run 351, Configuration FPBNPI WS To W= 15°, & 30°, WINDMILL

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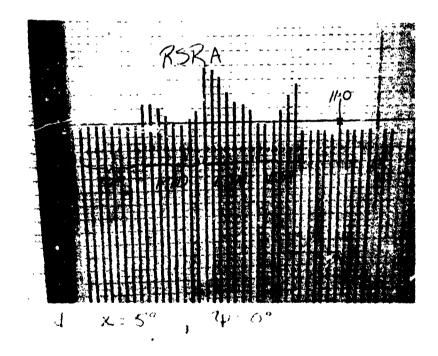
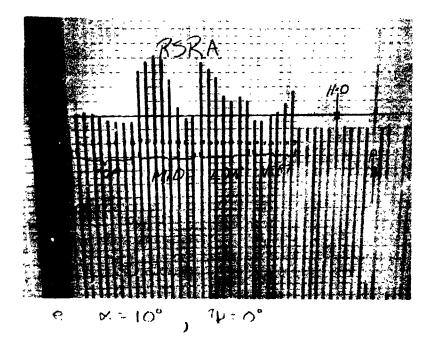


Figure 12 (Continued)

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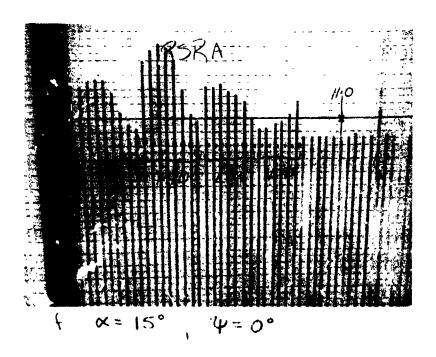


Figure 136 (Continued)

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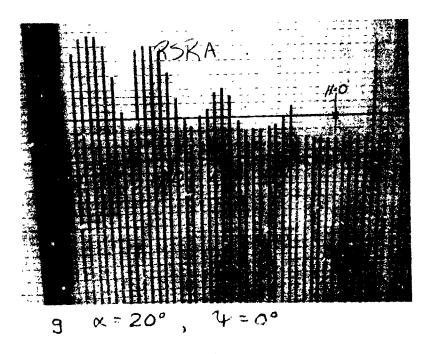
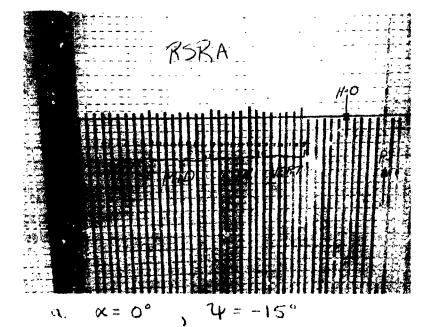


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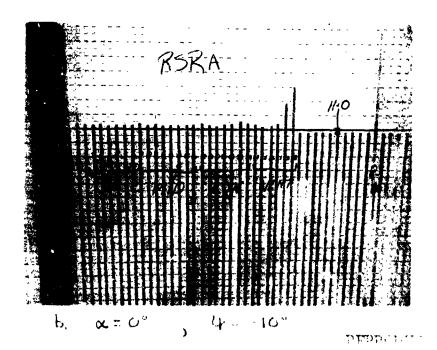


Figure 137 Total Pressure Rake Data Run 352, Configuration FPENPINSTA in 15°, of = 30°, WINDMILL

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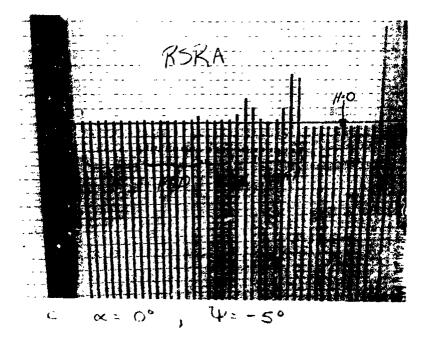
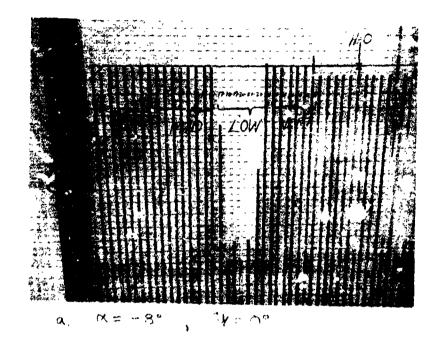


Figure 137 (Concluded)



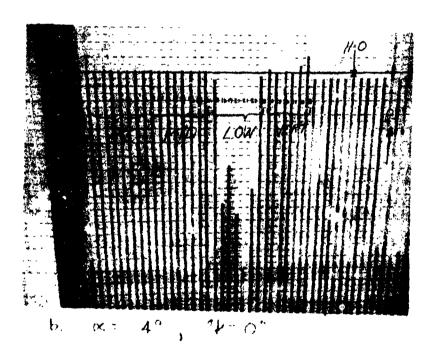
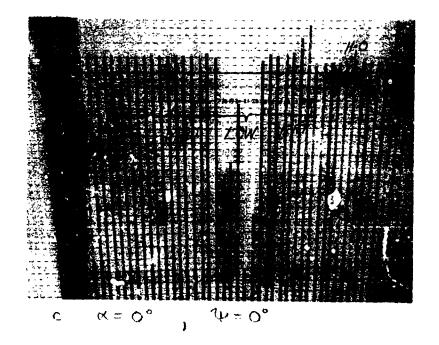


Figure 133 Total Processe Roke Data Run 353, Configuration FPBNPIWsTq W=15°, St=30°, TRIM POWER

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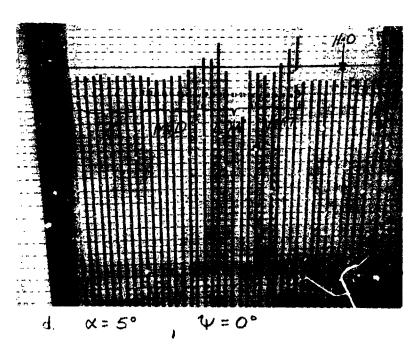
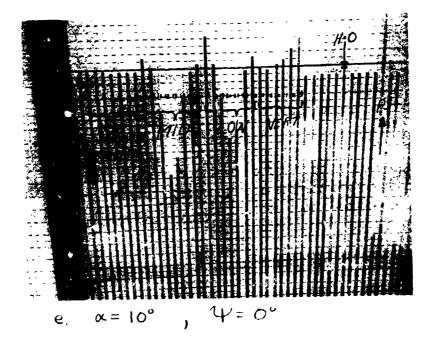


Figure 133 (Continued)



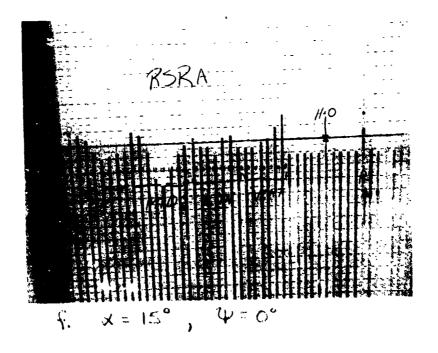


Figure 138 (Continued)

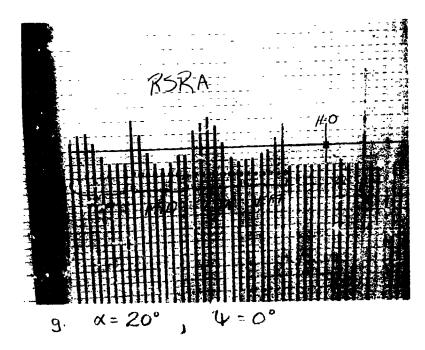
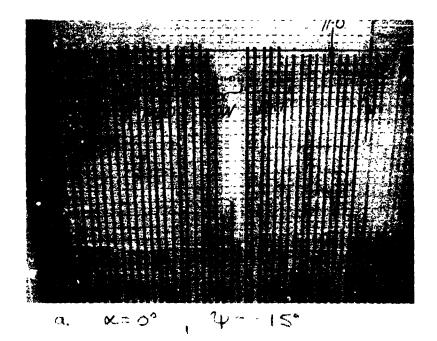


Figure 133 (Concluded)

#### Sikorsky Aircraft DIVISION OF UNITED AMERICA CORPORATION ARCHITECTURE CORPORATION

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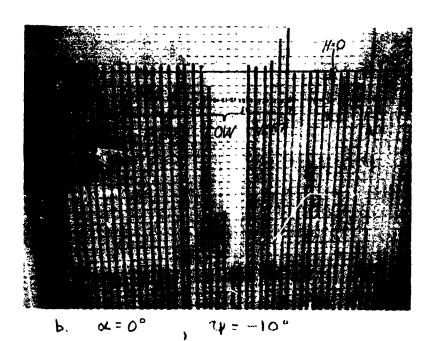


Figure 139 Total Pressure Rake Data Run 354, Configuration FPBNP, W5Tq W=15°, &= 30°, TRIM POWER

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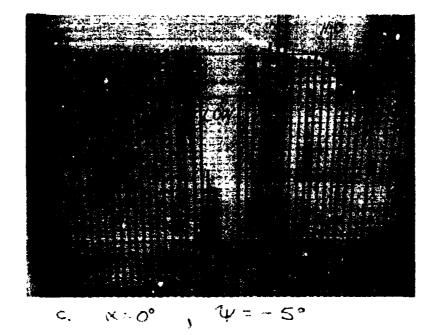
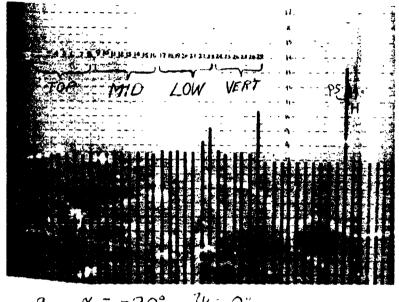


Figure 137 (Concluded)



a,  $\alpha = -20^{\circ}$ ,  $\Psi = 0^{\circ}$ 

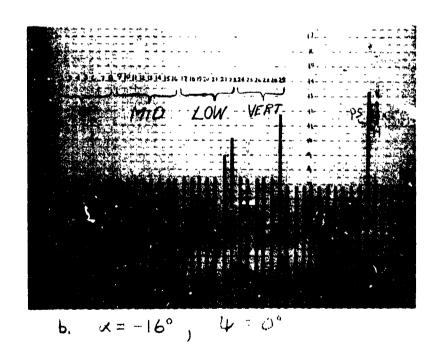
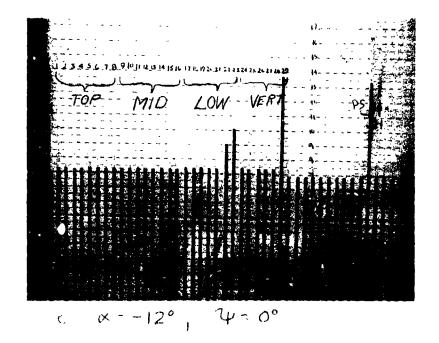


Figure 140 Total P. source Roke Data
Run 375, Configuration FPBWs Tq
LW = 15°, of =0°



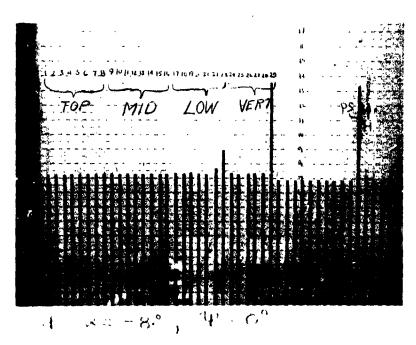
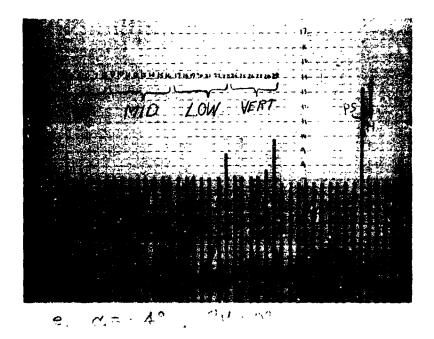


Figure 11) (Continued)

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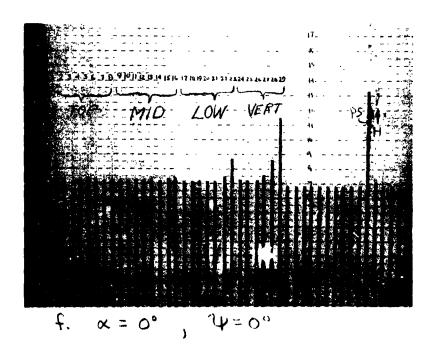
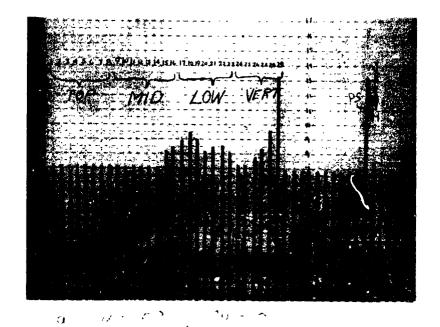


Figure 140 (Continued)

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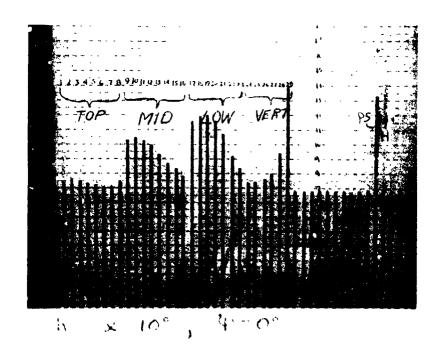
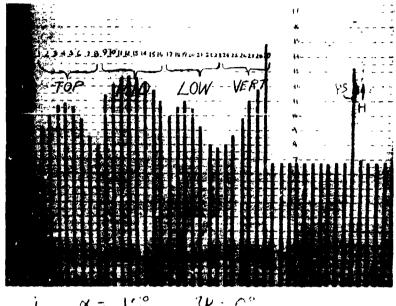


Figure 142 (Continued)

## Sikorsky Aircraft DIVISION OF UNITED AIRCRAFT A

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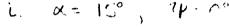
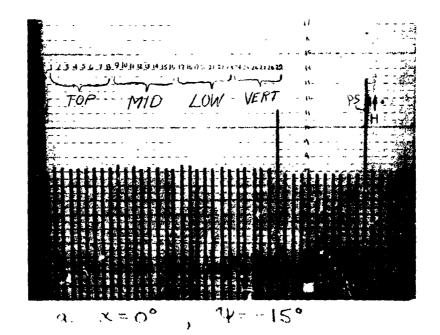




Figure 140 (Constitud)



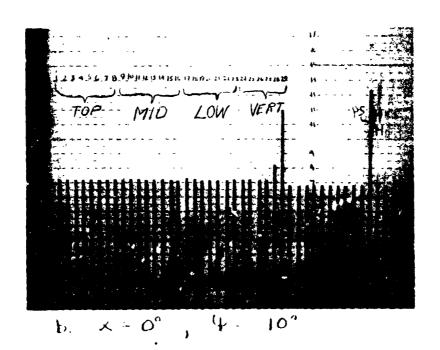
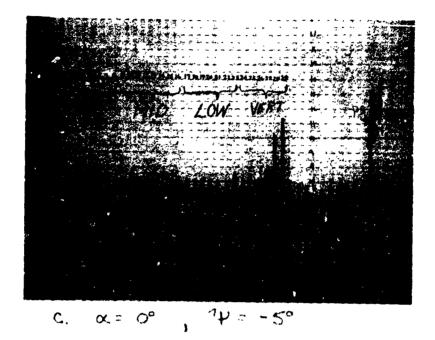


Figure 141 Total Proposer leake Dala Kun 316, and in alter 18 PBWsTq 141-151, of = 0

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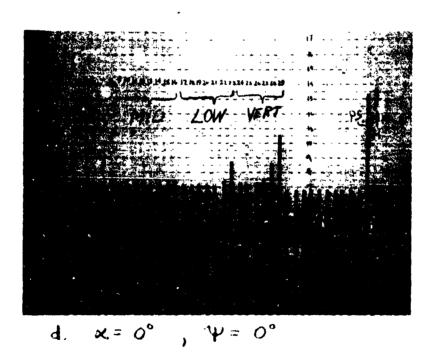
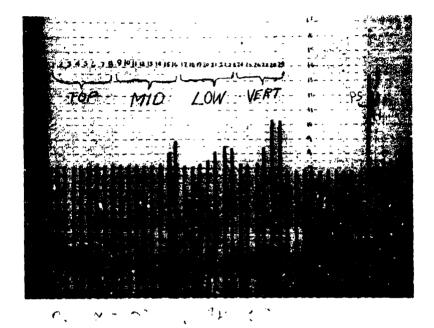


Figure 141 (Continued)



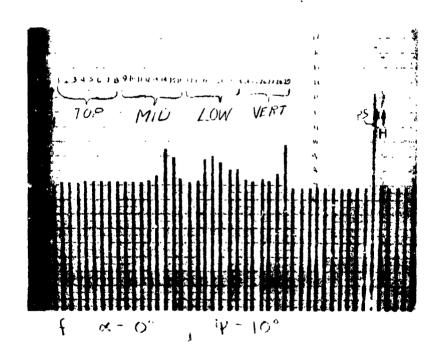


Figure 10 (Continued)

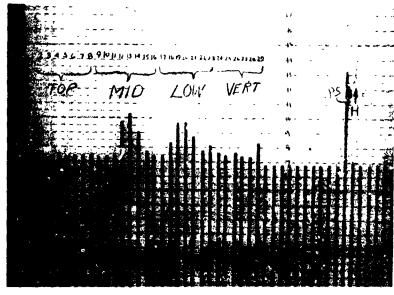
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### Sikorsky Aircraft Division of United Aircraft Corporation $A_{\widehat{\mathbb{R}}}$

REPORT NO. SER-1/2011

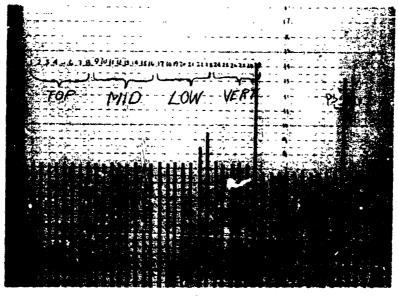


g. x = 0° , W 10

Figure 141 (Co. 1. 1.1)

### Sikorsky Aircraft DIVISION OF UNITED ARCHATION A

REPORT NO. SER - 72011



a.  $\alpha = -20^\circ$ ,  $\Psi = 0^\circ$ 

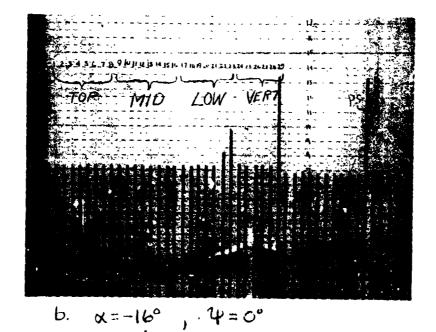
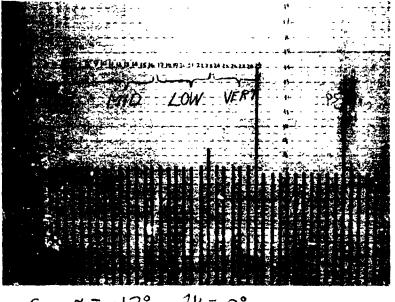


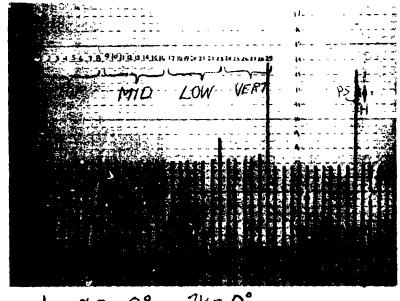
Figure 142 Total Processes Rake Data
Run 377, Configuration FPBWs Ta
iw=15°, &f = 0°

Sikorsky Aircraft OVISION OF UNITED AIRCRAFT COMPONATION  $A_{\otimes}$ 

REPORT NO. SER- 72011



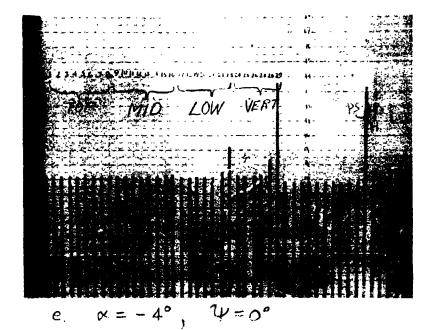
 $\alpha = -12^{\circ}$ 



d. a=-8°,

Figure 142 (Continued)

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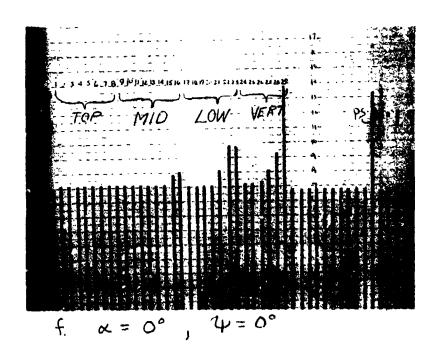
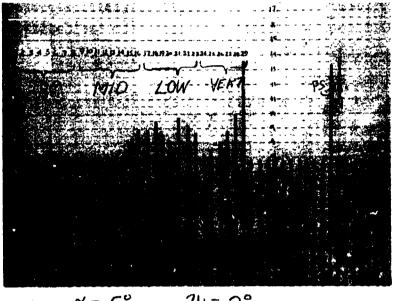


Figure 1+2 (Continued)

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g. x=5°, 4=0°

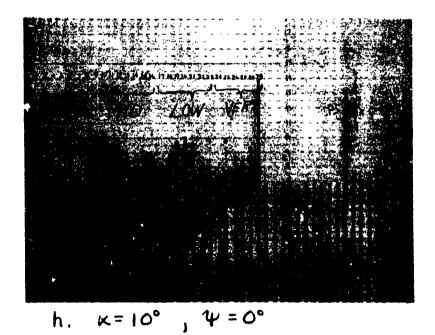


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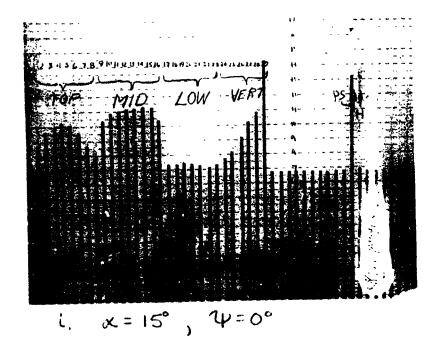
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### Sikorsky Aircraft OV/MON OF UNITED AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION AND AMERICA CORPORATION

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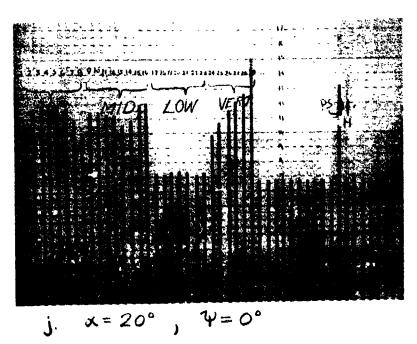
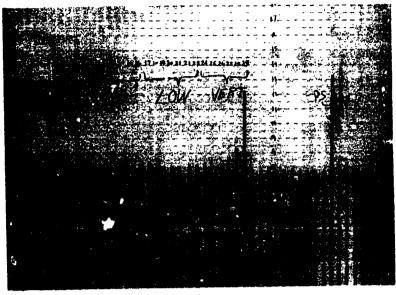


Figure 142 (Concluded)

599

#### Sikorsky Aircraft Division of United Aircraft Corporation

REPORT NO. SER- 72011



a.  $\alpha = 0^{\circ}$ ,  $\psi = -15^{\circ}$ 

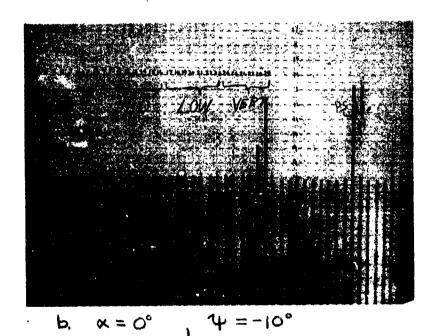


Figure 143 Total Pressure Rake Data
Run 378, Configuration FPBWsTq
Lw = 15°, &q = 0°

600

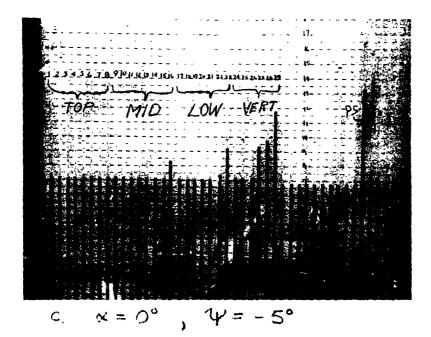
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### Sikorsky Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION A

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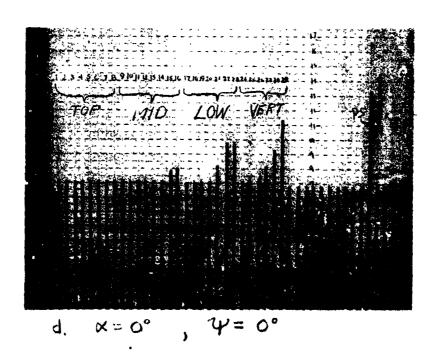
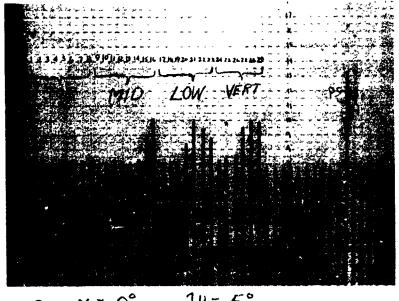


Figure 143 (Continued)

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e. 
$$\alpha = 0^{\circ}$$
,  $\Psi = 5^{\circ}$ 

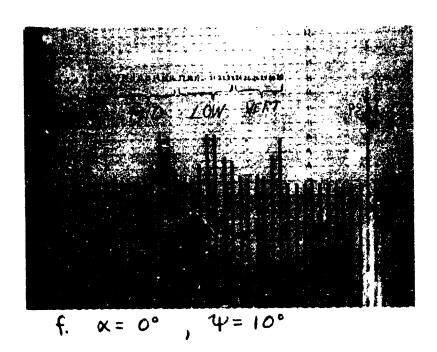


Figure 143 (Continued)

602

### Sikorsky Aircraft

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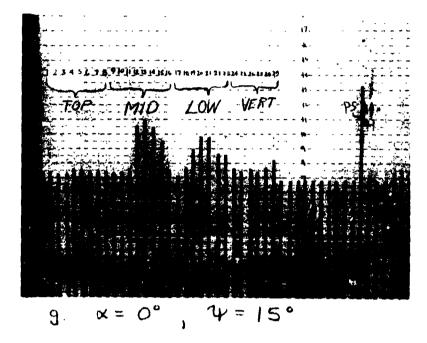
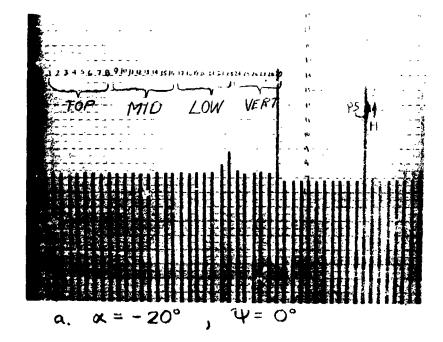


Figure 143 (Concluded)



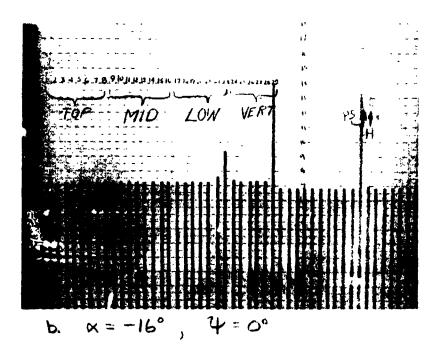


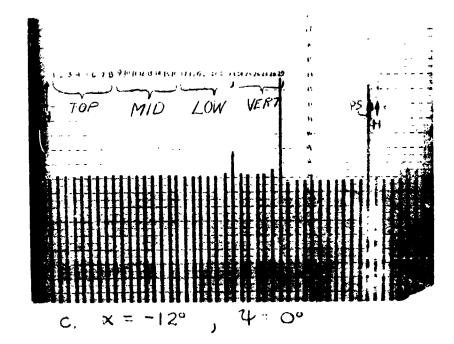
Figure 144 Total Pressure Rake Data
Run 379, Configuration FPBWs Tq
iw=0°, 8;=0°

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## Sikorsky Aircraft OVINION OF UNITED AIRCRAFT COMPORATION A

REPORT NO. SER - 72011



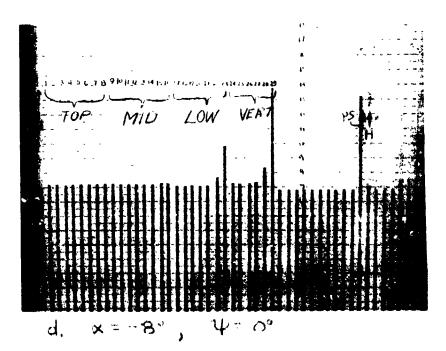
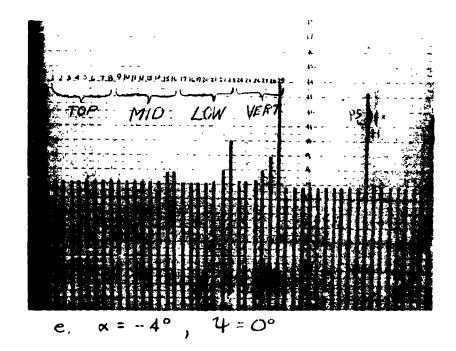


Figure 1914 (Continued)

605



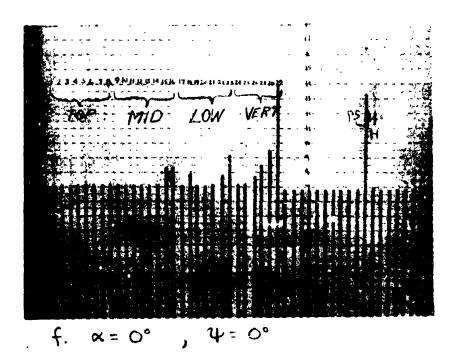
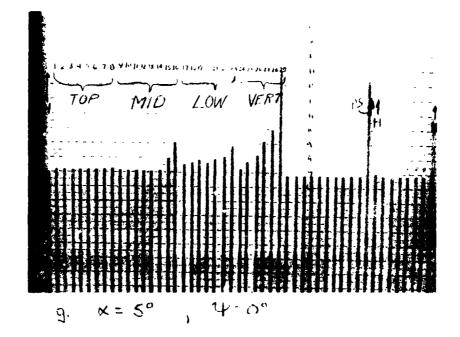


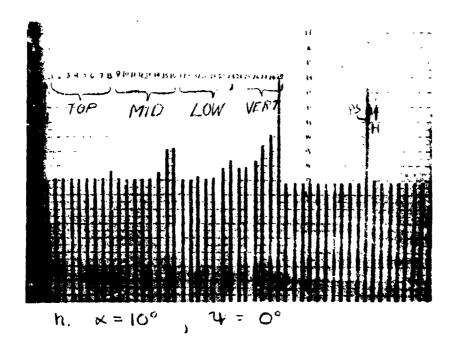
Figure 144 (Continued)

606

### Sikorsky Al-craft ON/BION OF UNITED AMERIAN CORPORATION A.

REPORT NO. SER-72011

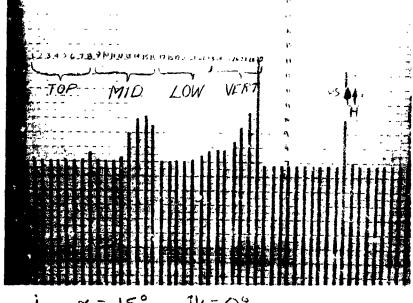




. Figure 144 (Continued)

### Sikorsky Aircraft Division of United Aircraft Componation A

REPORT NO. SER-72011



i. x=15°, 4=0°

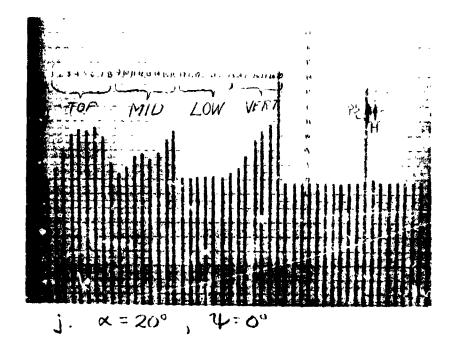


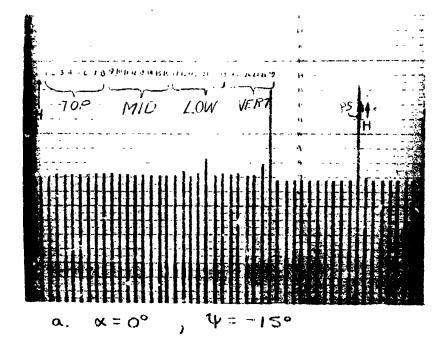
Figure 144 (Concluded)

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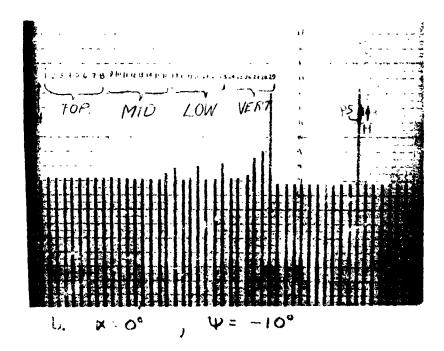
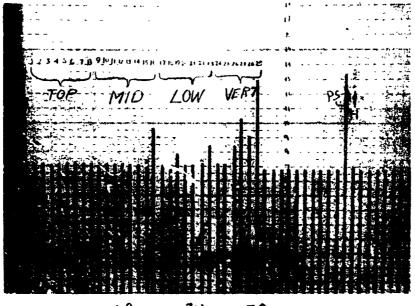


Figure 145 Total Pressure Rake Data Kun 280, Configuration FPBWsTa Lw = 0°, St = 0°

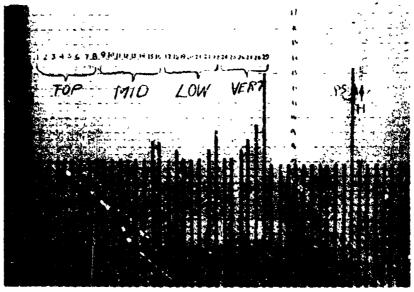
609

# Sikorsky Aircraft Division OF UNITED ASCRAFT CORPORATION A

REPORT NO. SER - 72011



c. 
$$\alpha = 0^{\circ}$$
,  $\Psi = -5^{\circ}$ 



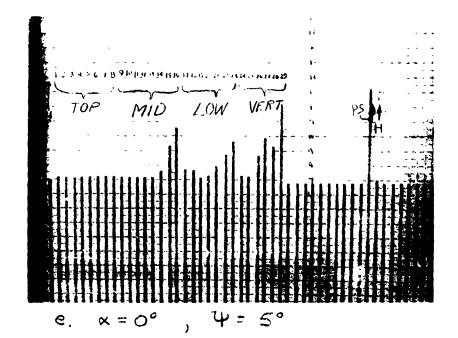
d.  $\alpha = 0^{\circ}$ ,  $\psi = 0^{\circ}$ 

Figure 145 (Continued)

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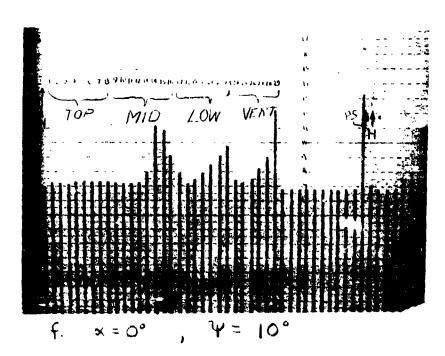


Figure 45 (Continued)

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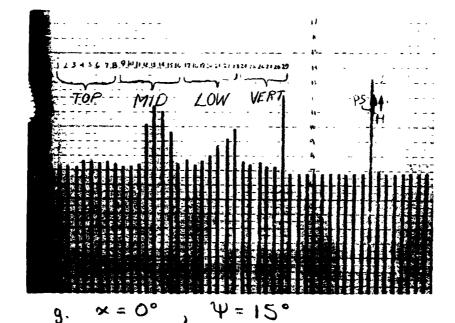
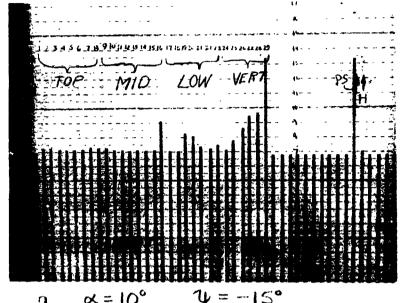


Figure 145 (Concluded)

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#### Sikorsky Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION AIRCRAFT CORPORATION

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x=10°, Q,

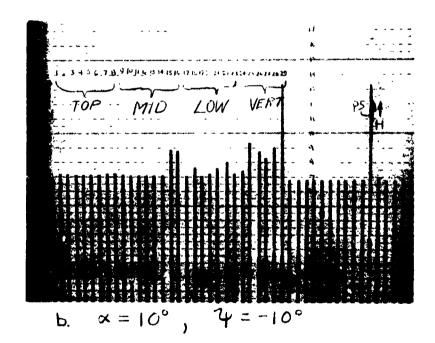
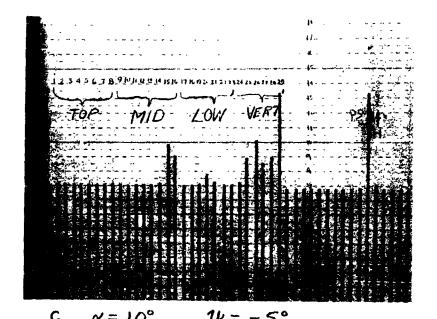


Figure 146 Total Fissure Rake Data
Run 381, Configuration FPBWsTq
iw= 0°, óf = 0°

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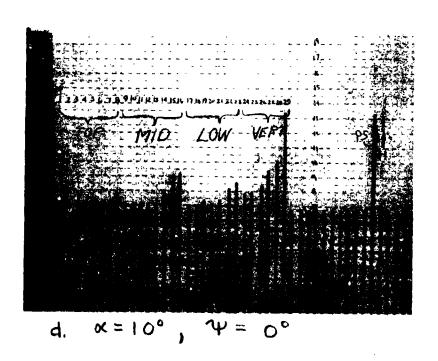
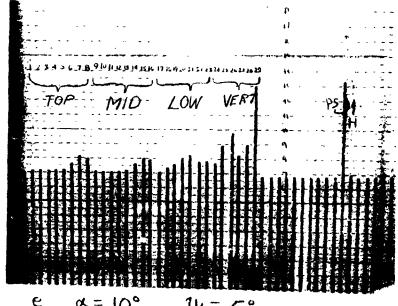
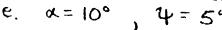


Figure 146 (Continued)

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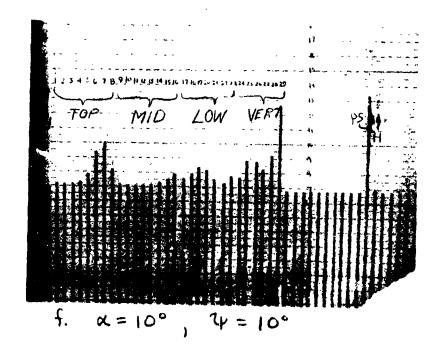


Figure 146 (Continued)

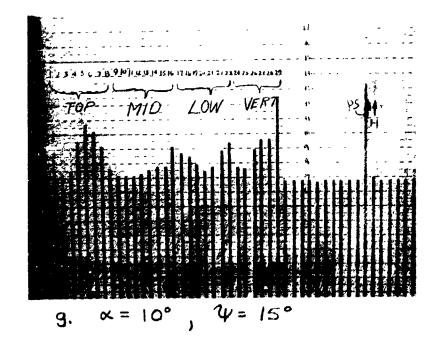
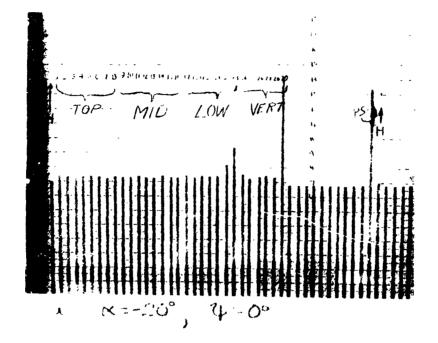


Figure 146 (Concluded)

### Sikorsky Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION A.R.

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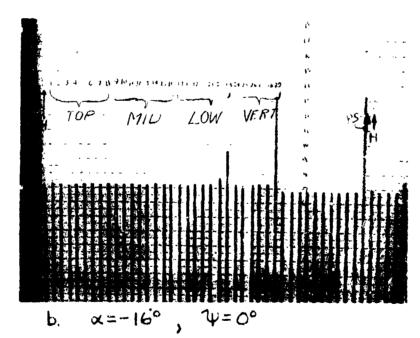
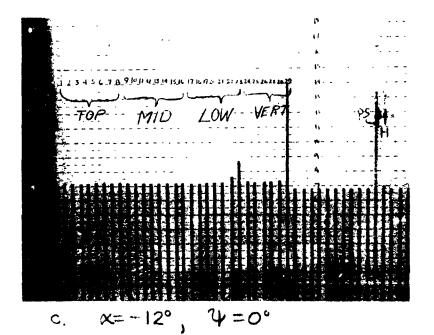


Figure 147 Total Pressure Roke Data Run 382, Configuration FPBWs Tq iw = -90, Eq = 0°



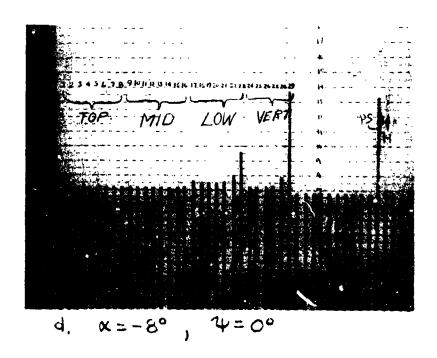
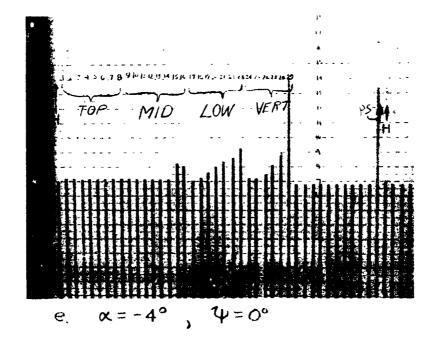


Figure 147 (Continued)

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### Sikorsky Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION REPORT NO. SER-72011



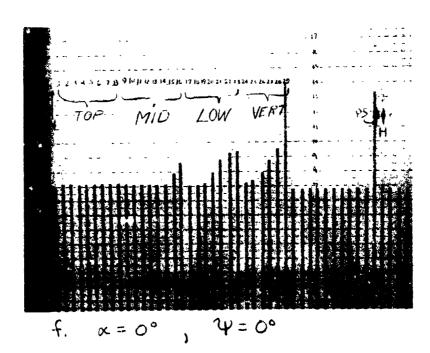
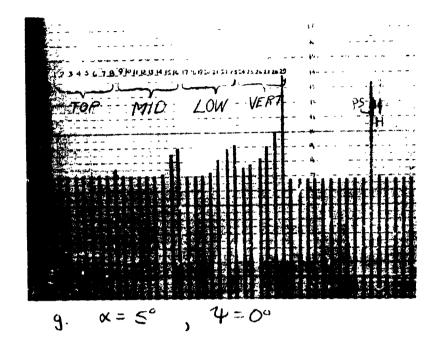


Figure 147 (Continued)

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### Sikorsky Aircraft DIVISION OF UNITED AIRCRAFT CORPORATION A.

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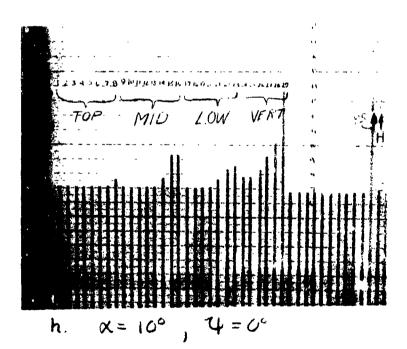
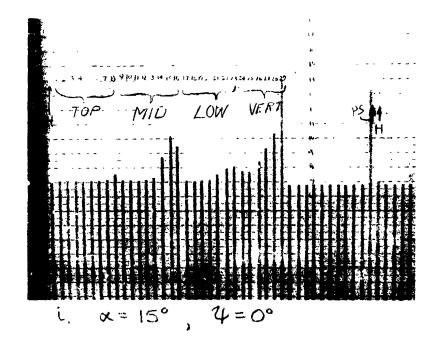


Figure 147 (Continued)

## Sikorsky Aircraft DIVIBION OF UNITED AIRCRAFT CORPORATION A.

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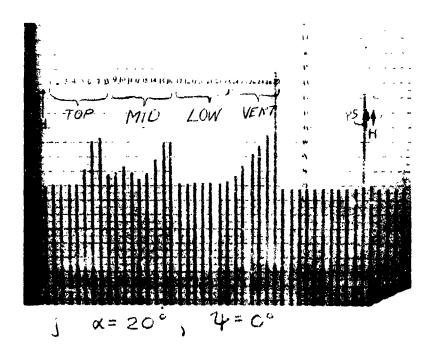
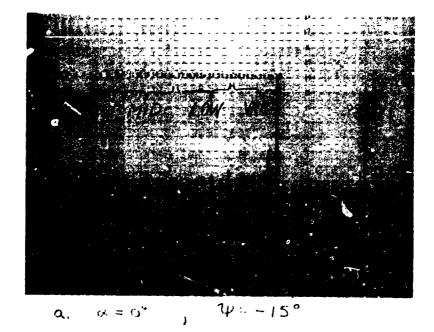


Figure 141 (Concluded)



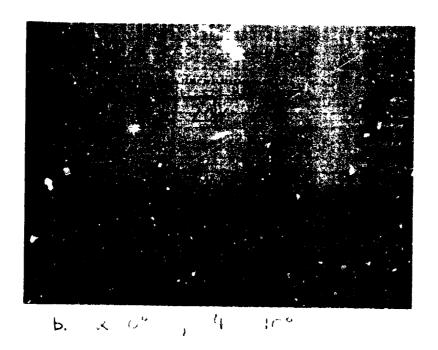
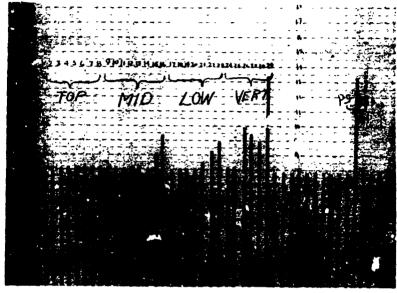


Figure 145 Total FFBW5 Tq

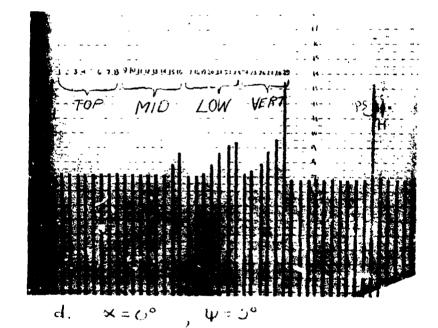
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## Sikorsky Aircraft OLUBION OF UNITED AIRCRAFT CORPURATION A

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c. x=0° , 4=-5°

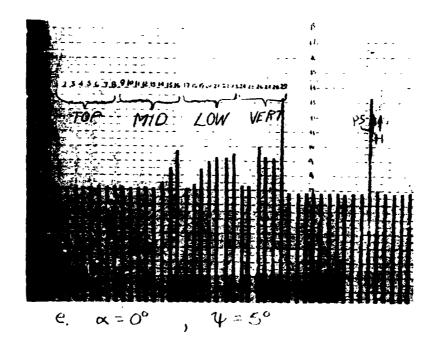


. Figure 145 (Continued)

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REPORT NO. SER - 72011



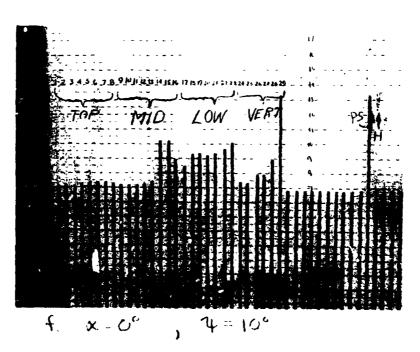


Figure 148 (Continued)

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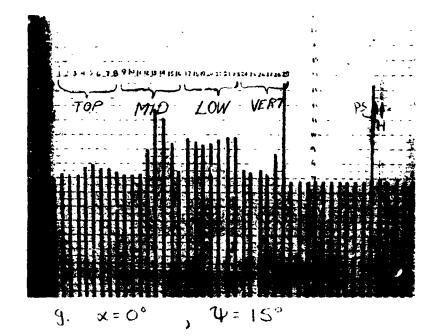
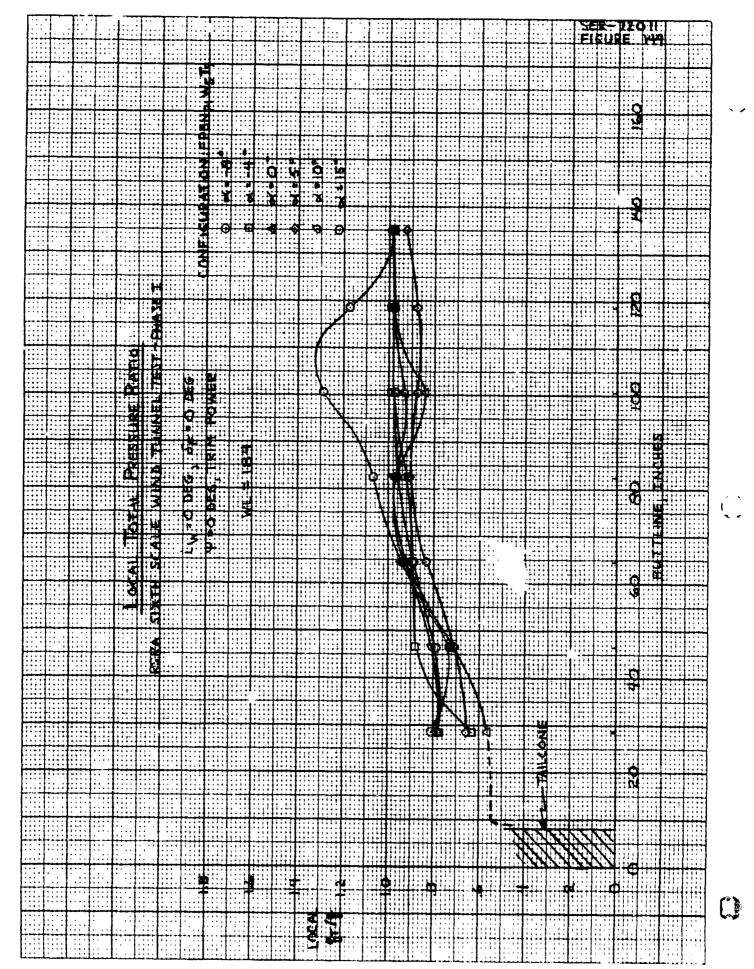


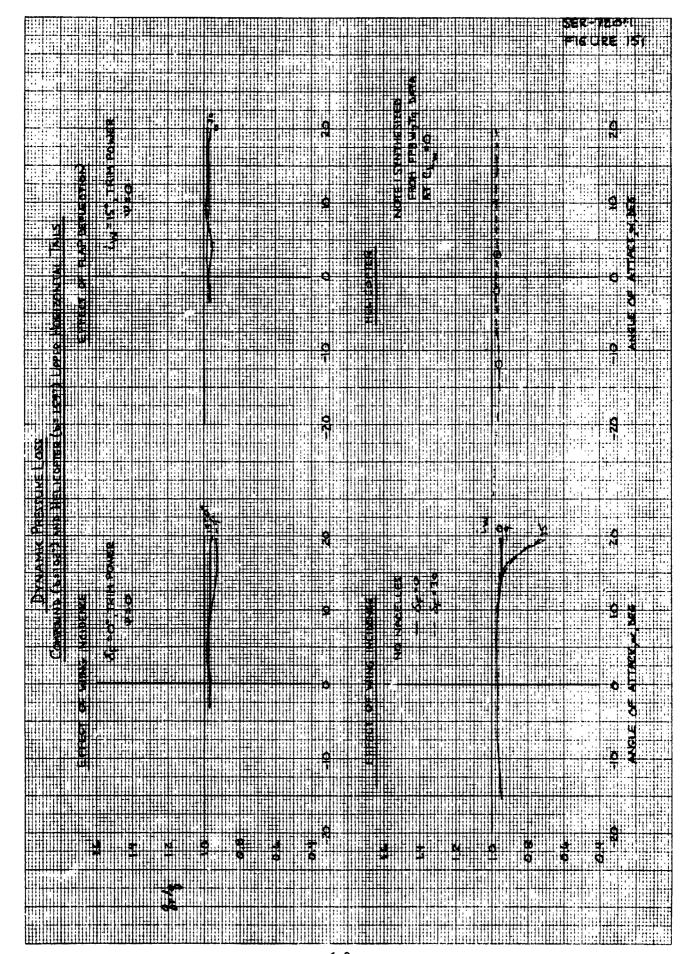
Figure 148 (Concluded)



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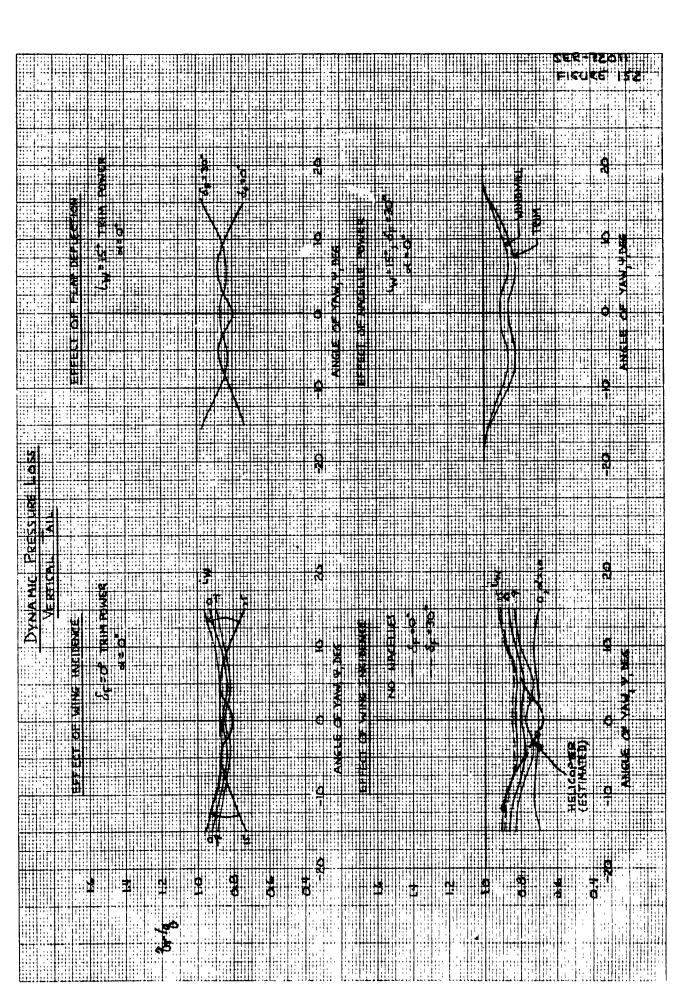
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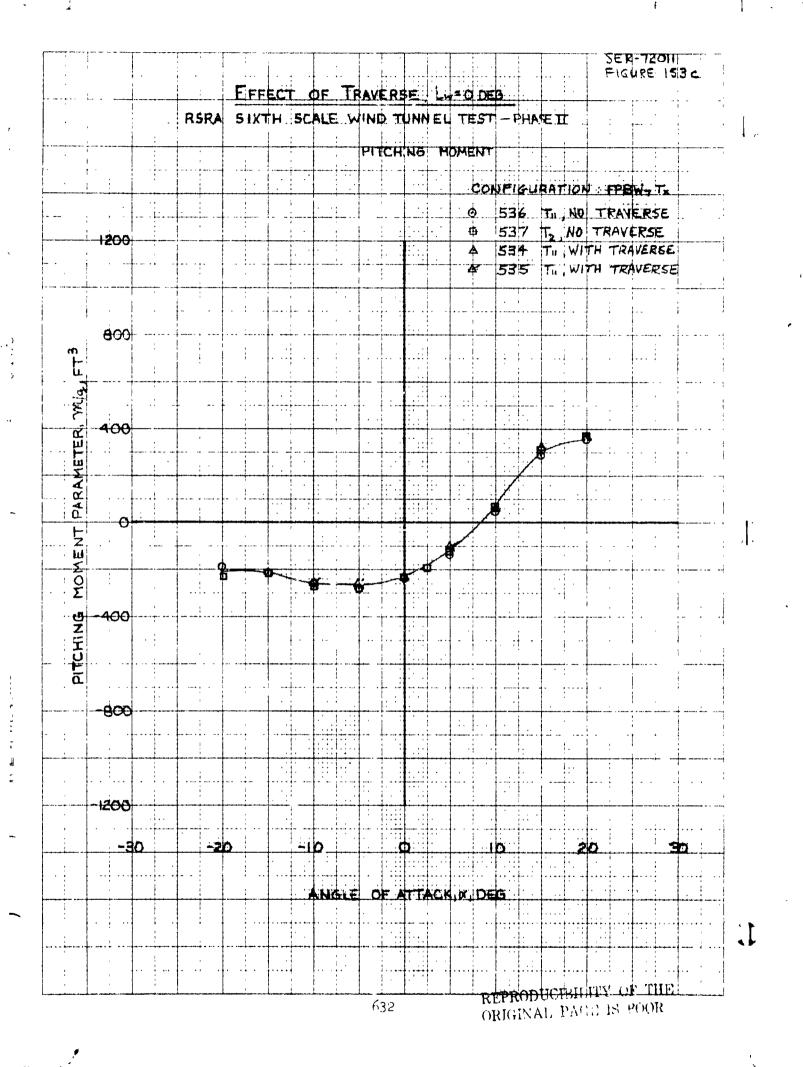
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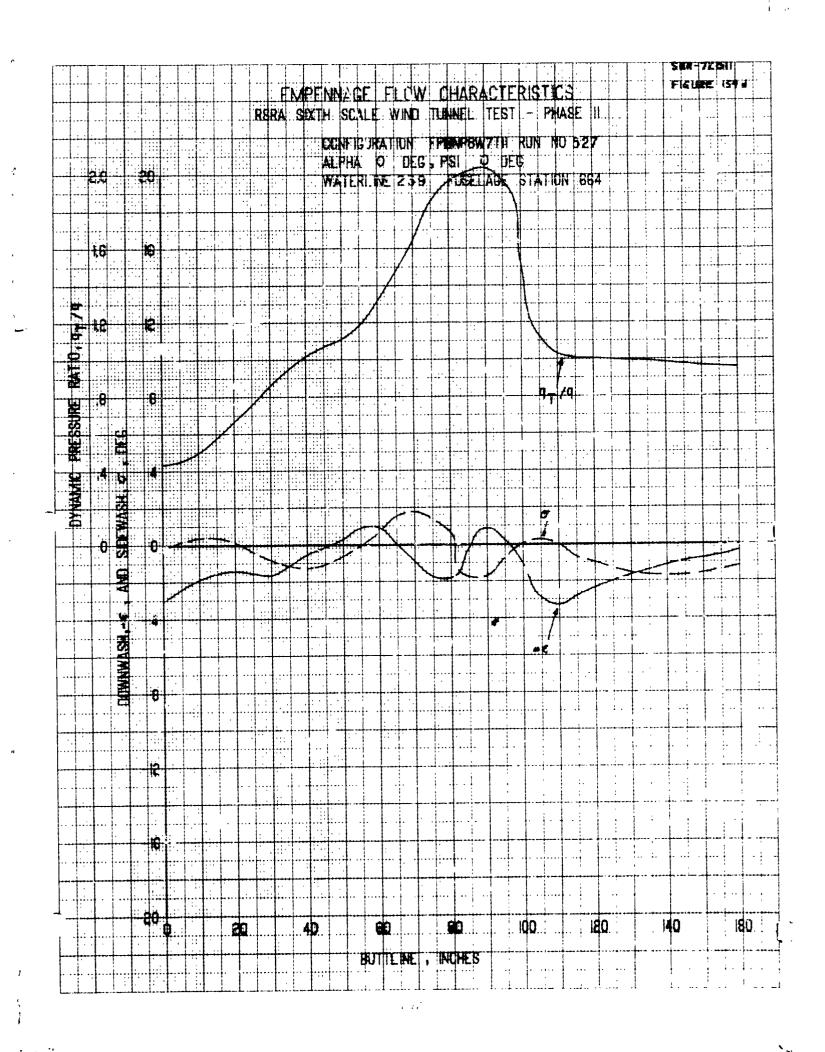


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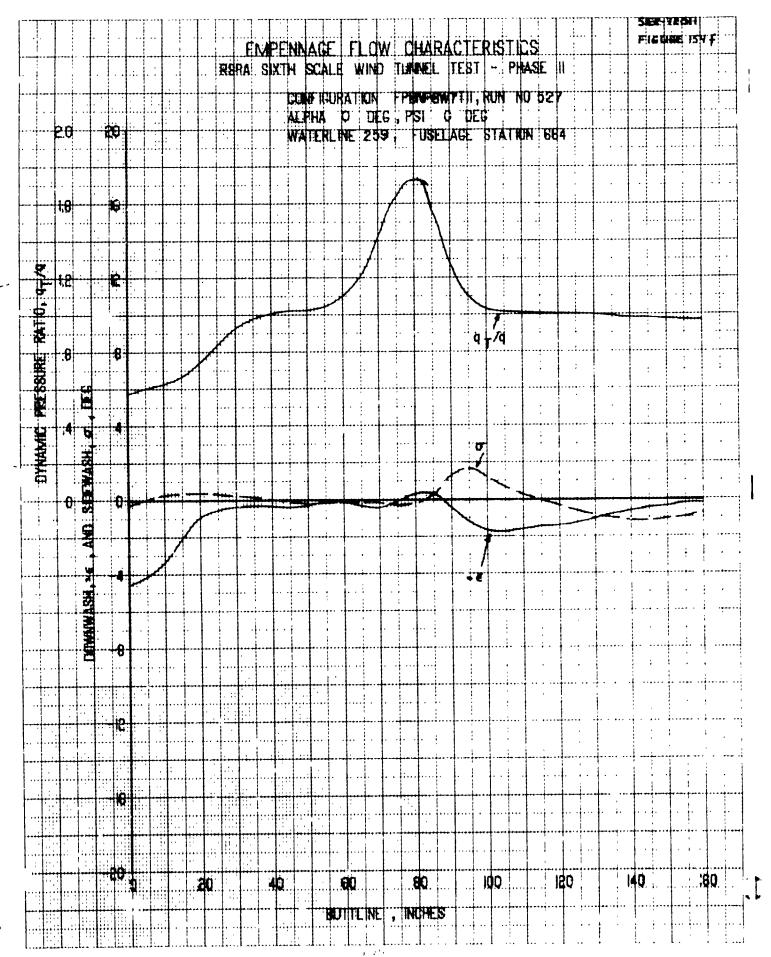
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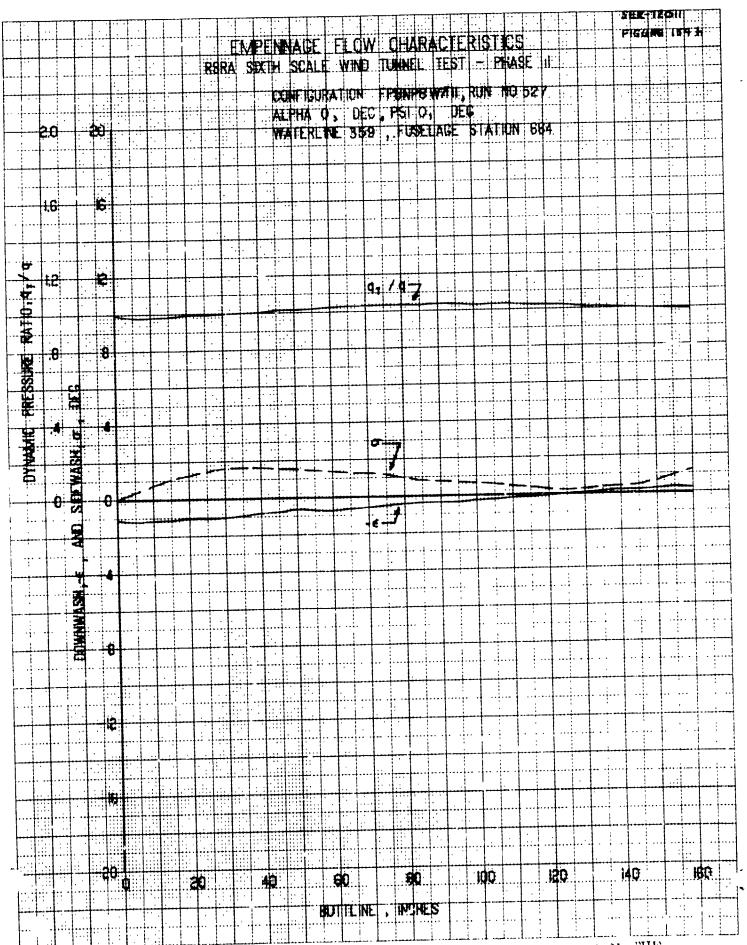
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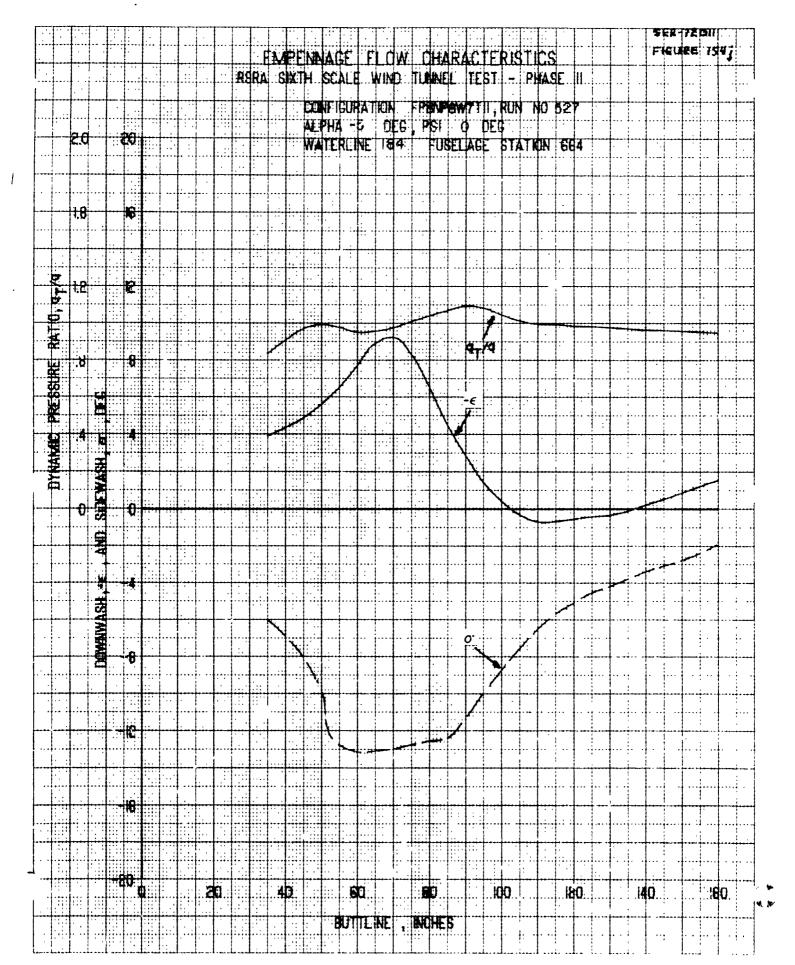
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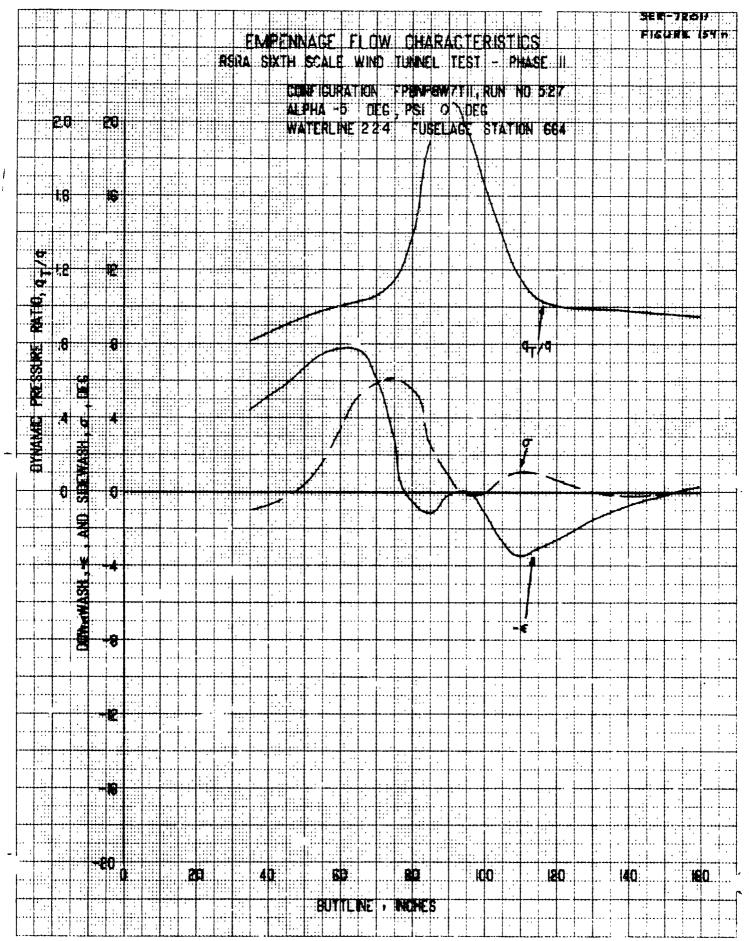
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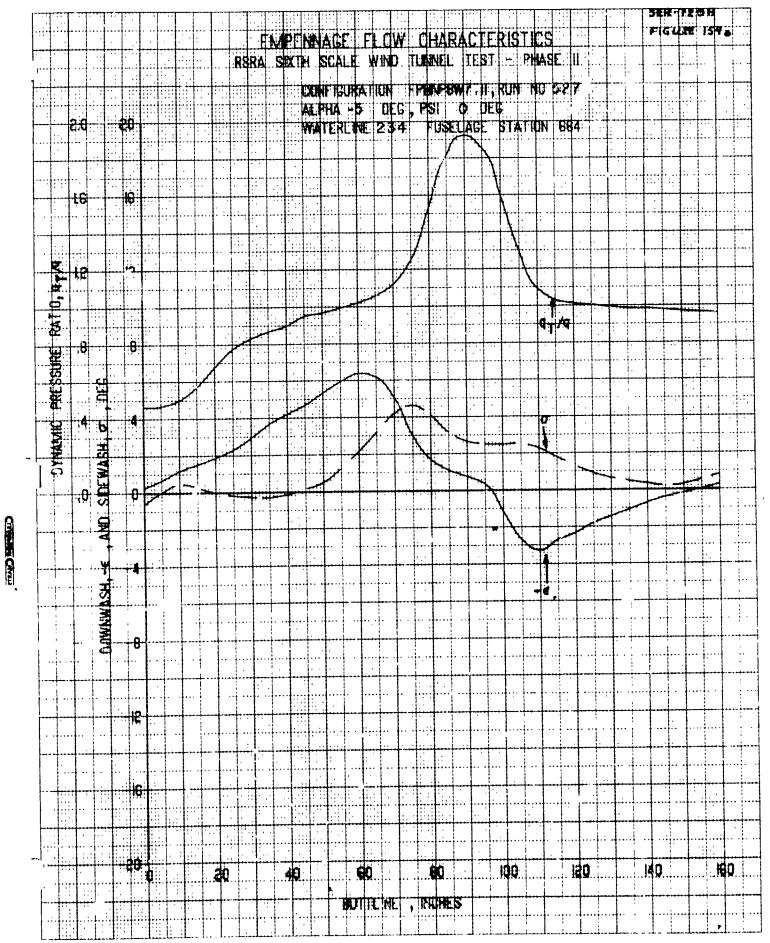
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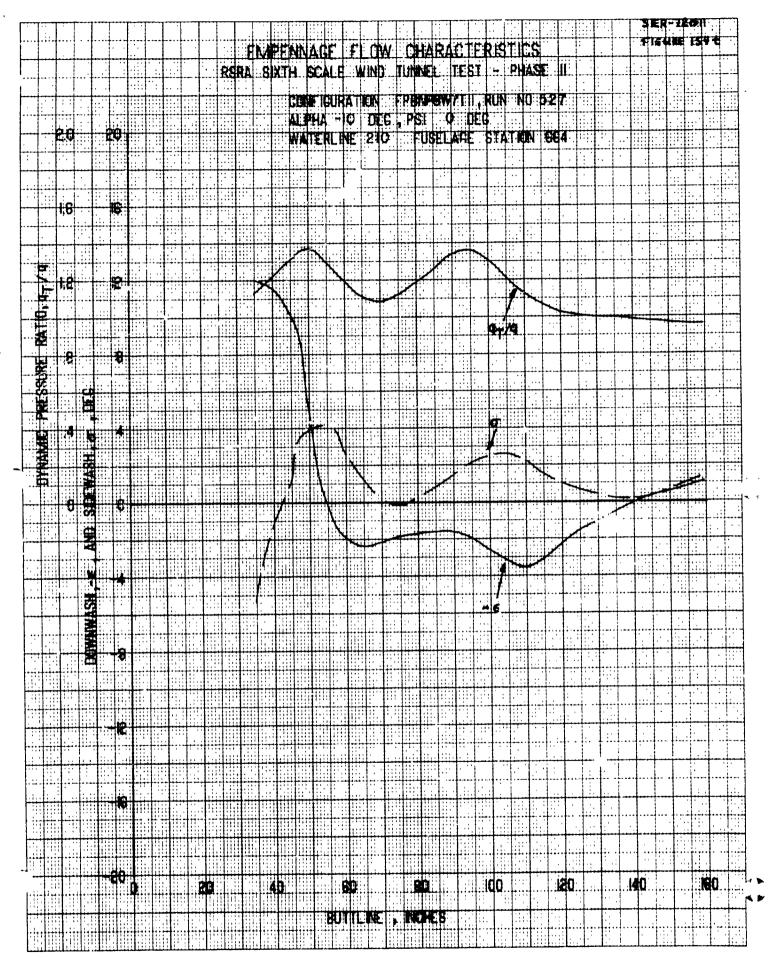
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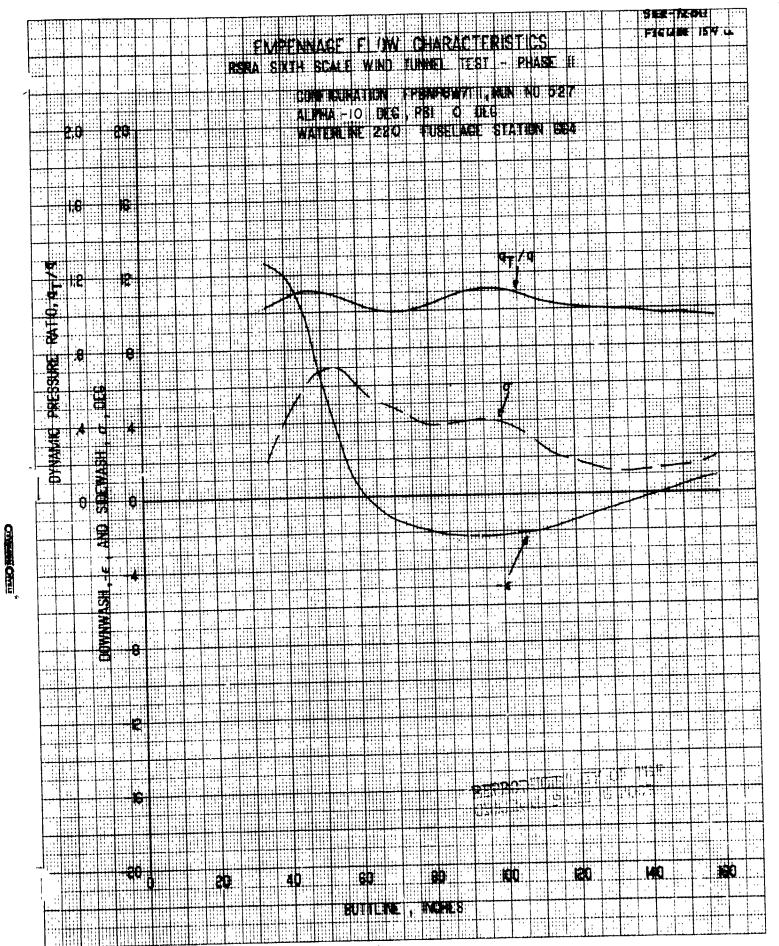
EMPENNAGE FLOW CHARACTERISTICS RISTA SIXTH SCALE WIND TUNNEL TEST - PHASE II COMMICURATION FRANCENETT, NUN NO 527 ALPHA -10 DEG PSI O DEG FUSELAGE STATION 684 WATERLINE IBO 20 DYNAME PRESSURE RATIO, 97/9 18 ht/d 140 CBL MO 190 40. BUTTLINE , NOMES

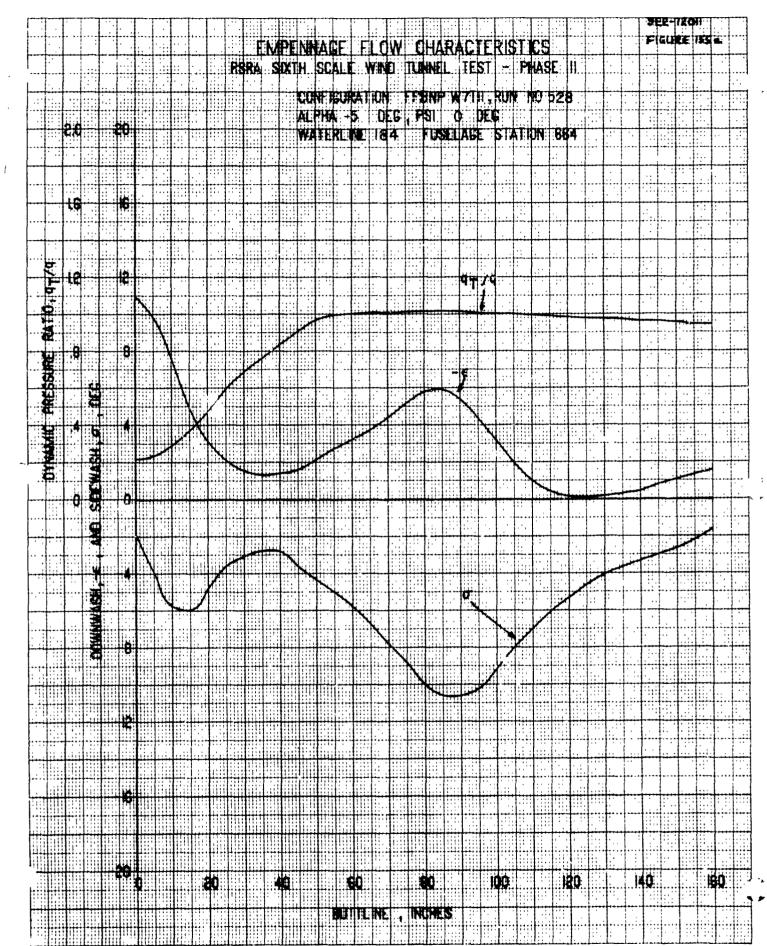
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SEETISMI 154 E TWPENNAGE FLOW CHARACTERISTICS RSRA SEXTH SCALE WIND TUNNEL TEST - PHASE II CONTIGURATION FPBN/BW7TH, RUN NO 527 ALPHA -JO DEG, PSI O DEG WATERLAN 200 FUSELAGE STATION 664 DYNAMIC PRESSURE RATIO, 9-74 97/9 8 SDEWAS 0 DAMMAN SH 100 180 140 180 BUTTE NE

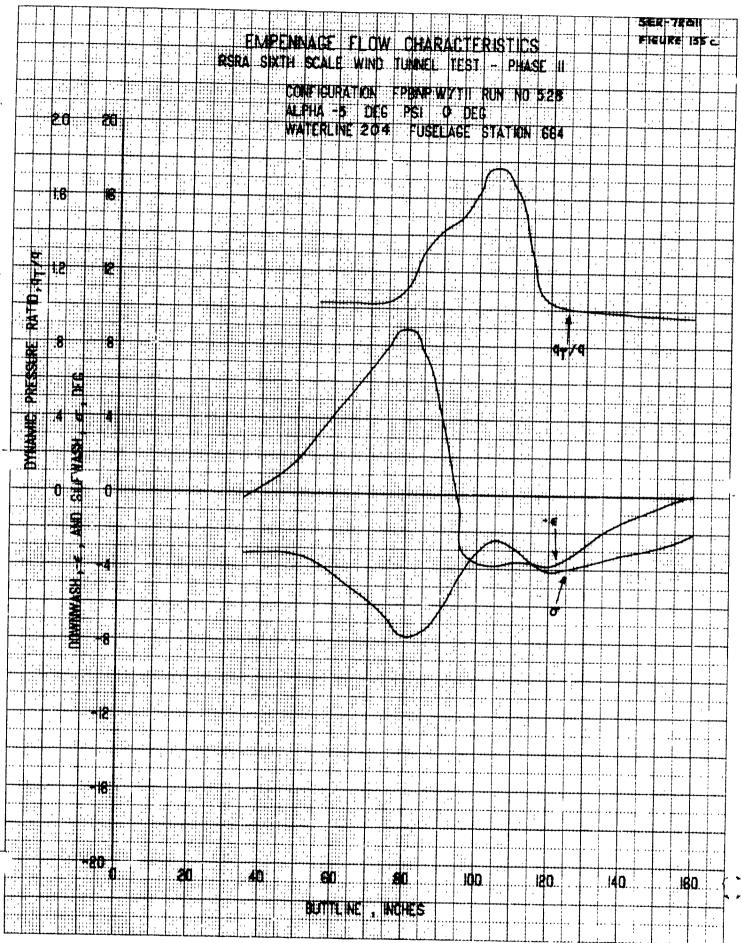




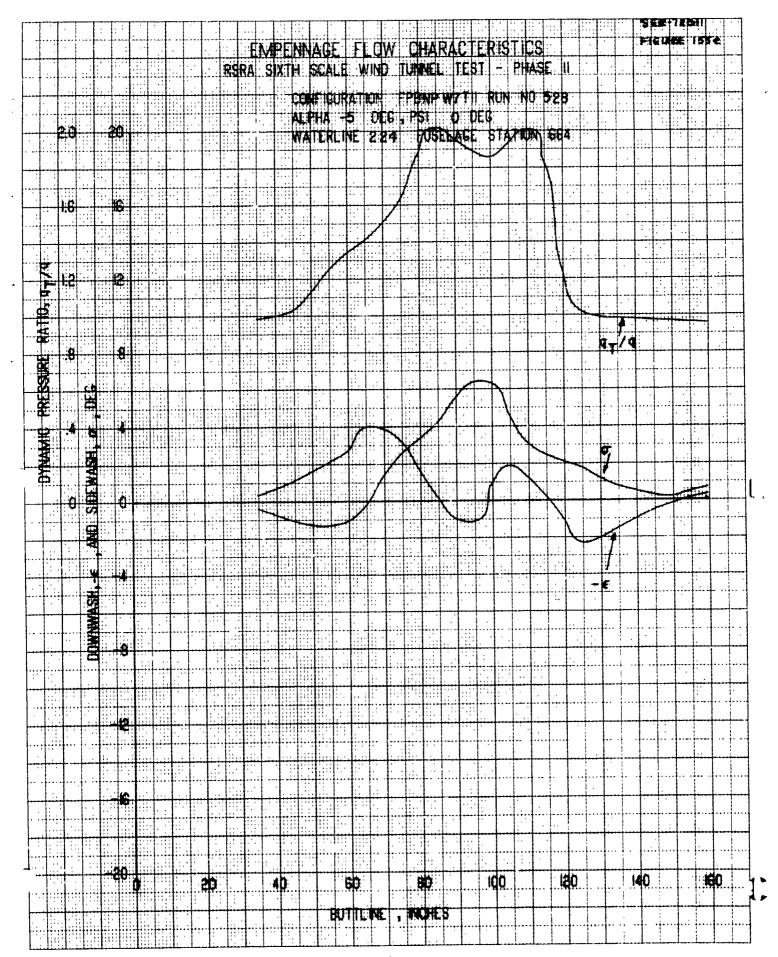


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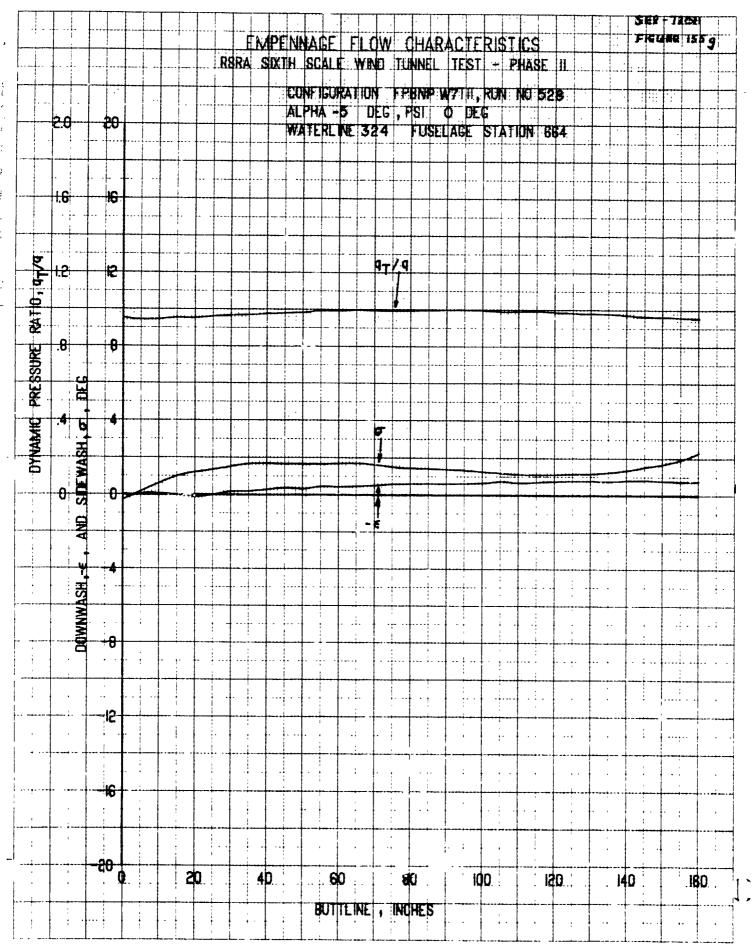


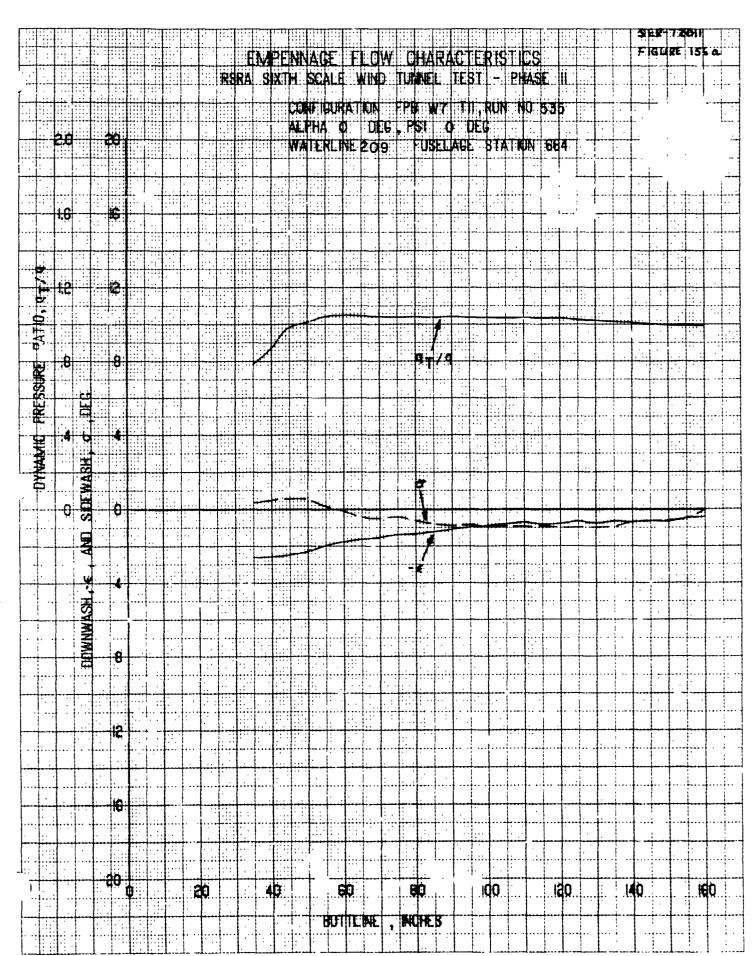
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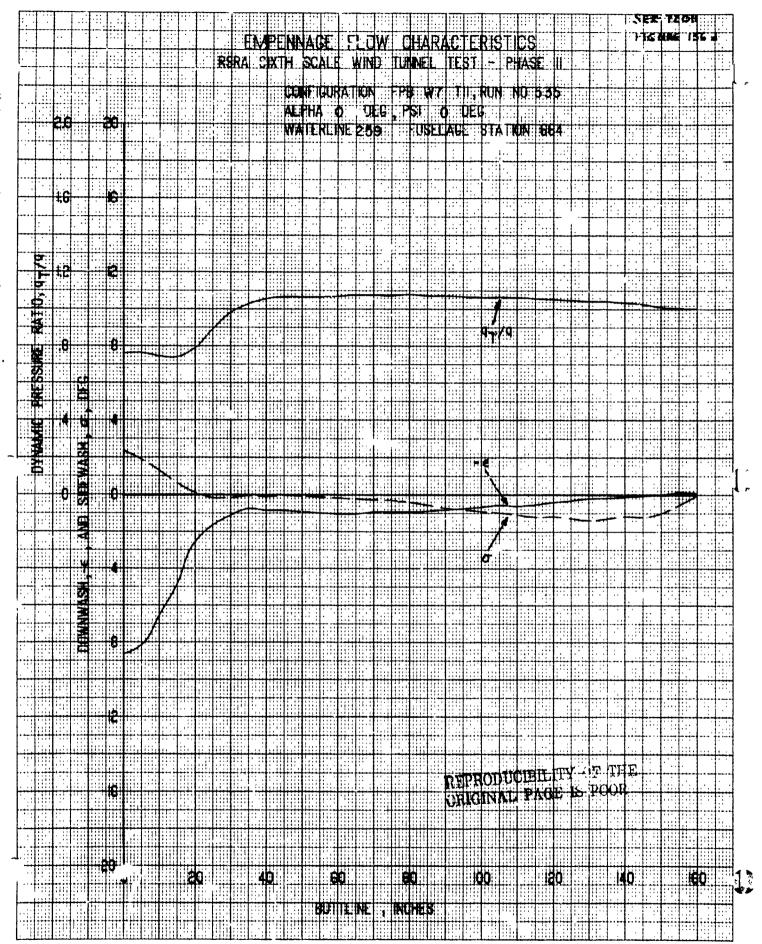




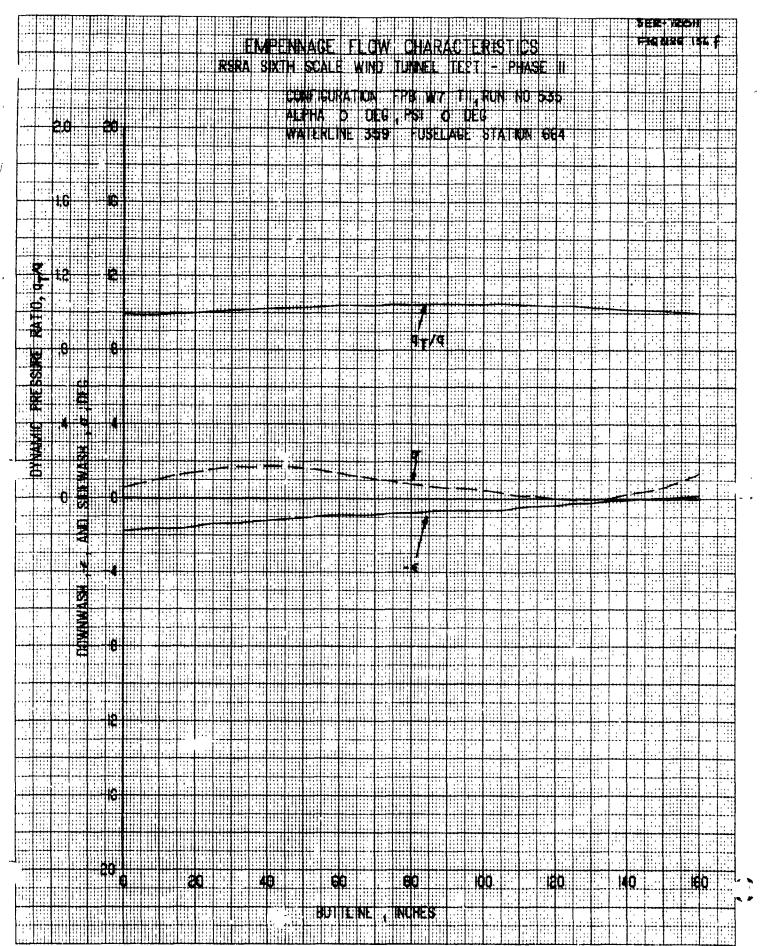
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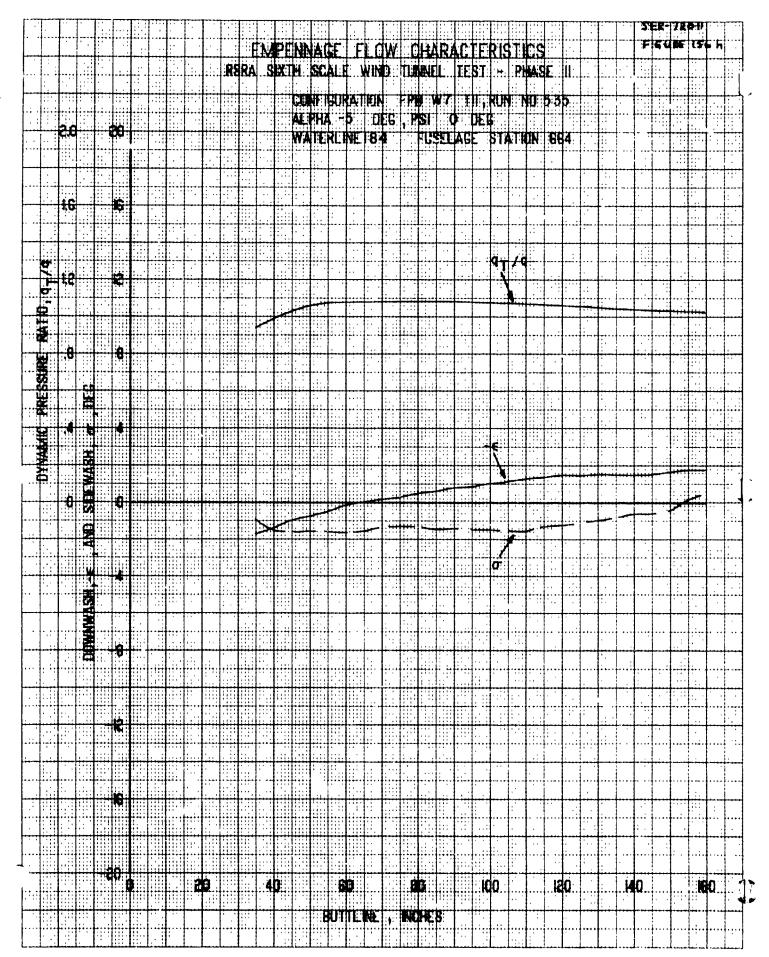
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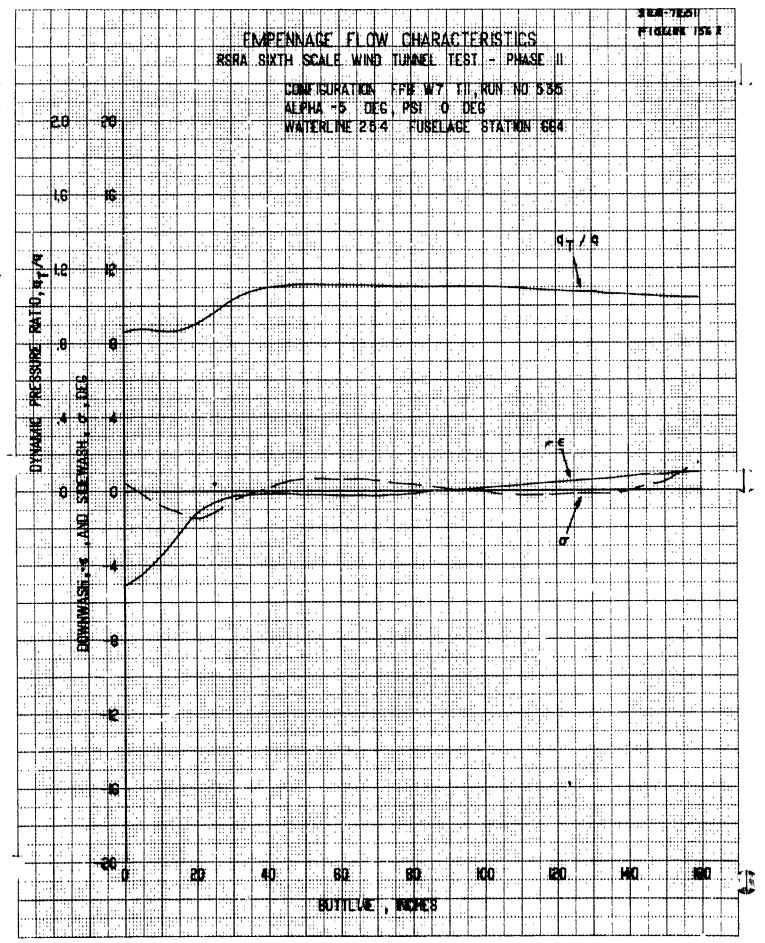
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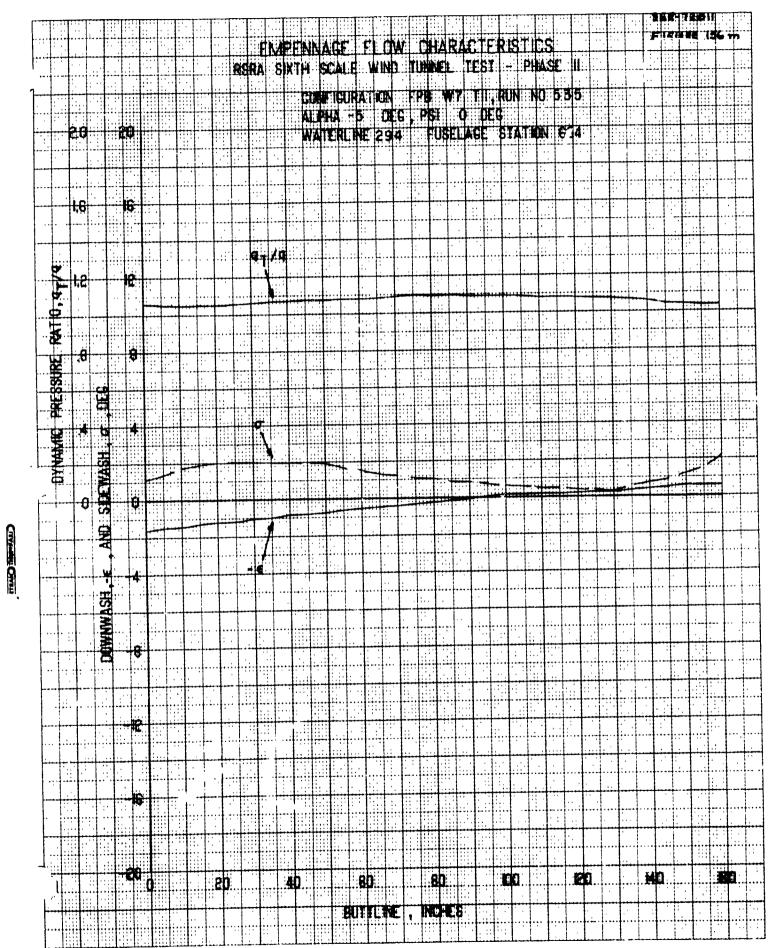


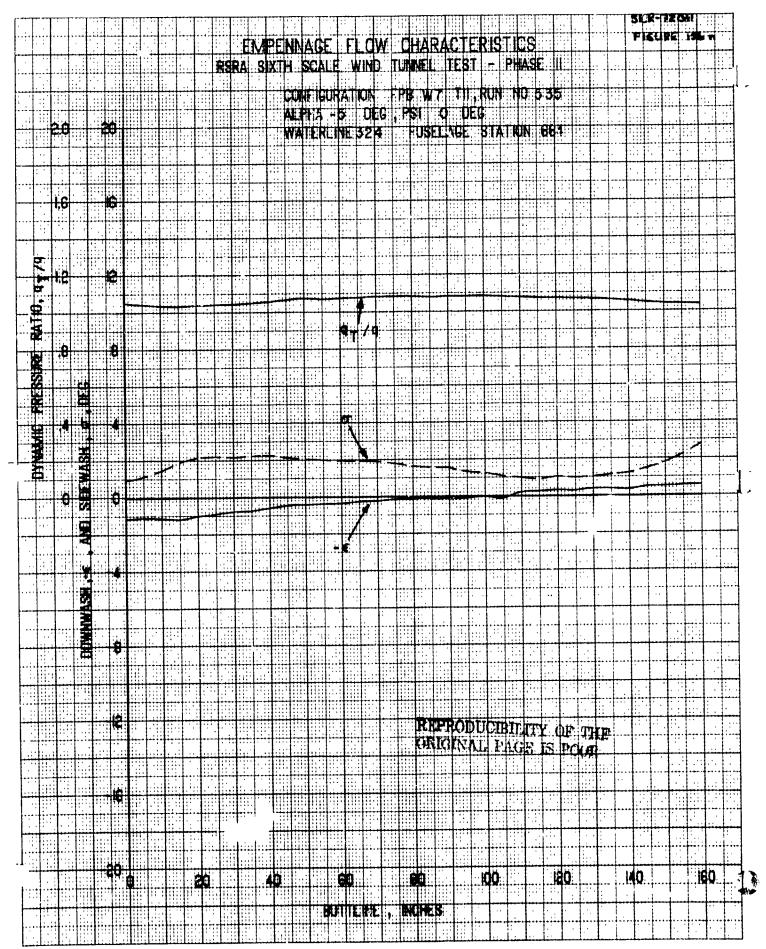
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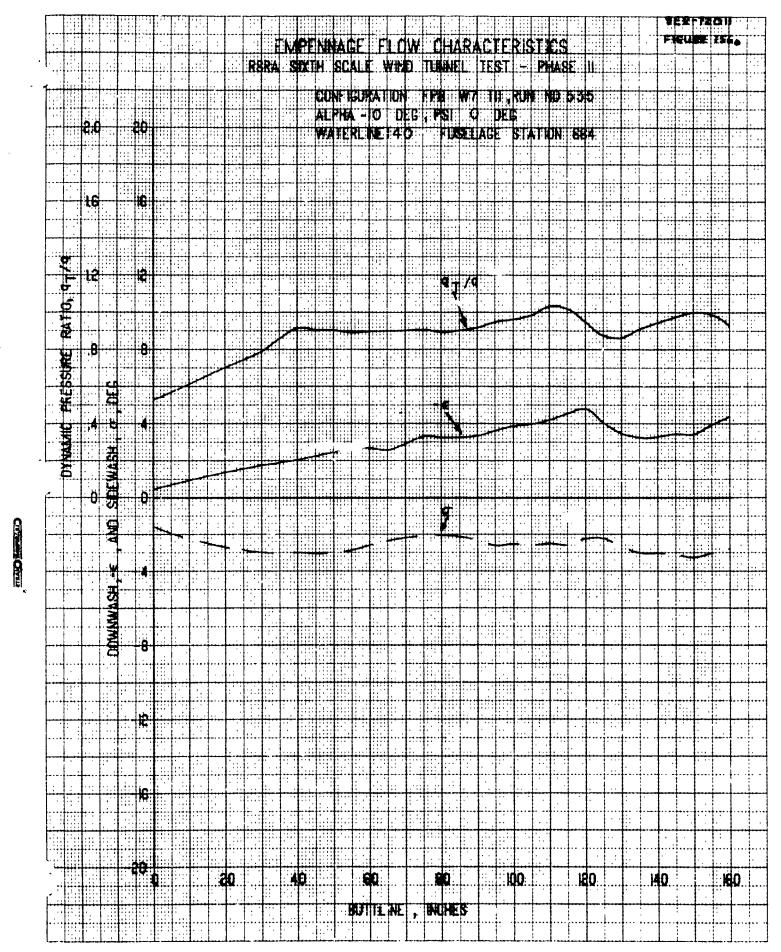
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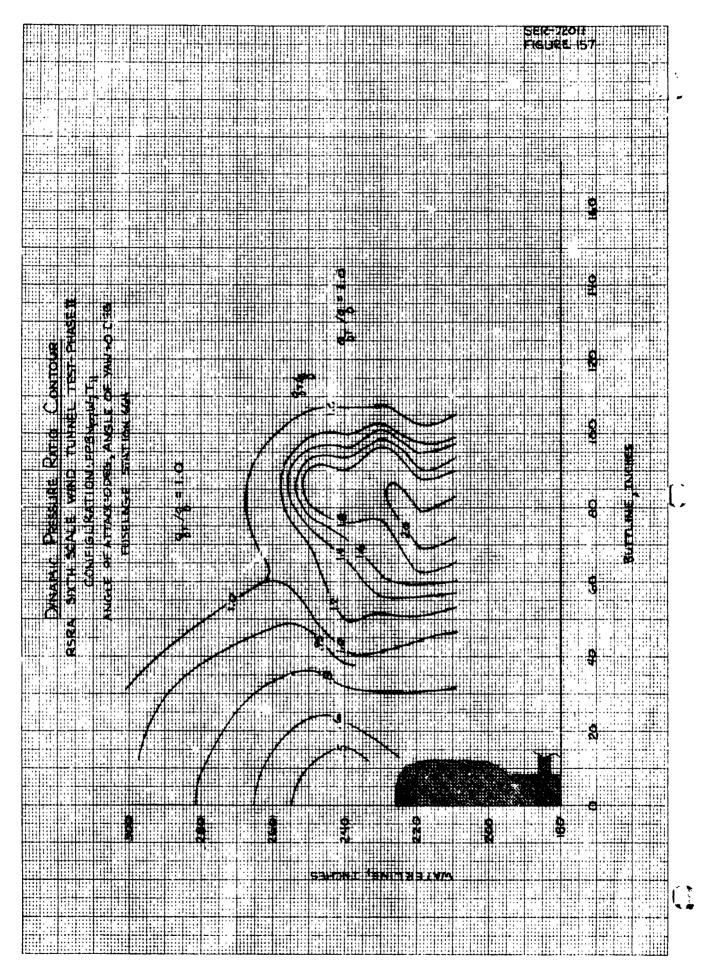
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FIGURE 151 Ħ \$**\*** NNAMIC PRESSURE RATIO CONTOUR SATH SCALE WIND TUNNEL TEST-PARSE ATTACK - 100 EG, ANGLE OF YAMEO DEG 9 CONFIGURATION: FPENEGWOTH "E, TNCHES FUSEY ARE STATION 9 DYNAMIC PRESSURE BUT TI Q CHAPTER CAST ANGIE OF RS RA 3 # 8

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